

# Project Learning Tree Explore Your Environment: K-8 Activity Guide

# **Correlations to Florida Education Standards**

**Understanding and Using the Explore Your Environment: K-8 Activity Guide (Guide) Correlations Tables** 

# **Focus**:

The standards listed in the correlations tables are Florida Next Generation Sunshine State Standards (NGSSS) for Science and Social Studies, Florida Standards (FS) for Language Arts and Mathematics, and Benchmarks for Excellent Student Thinking (BEST) Standards for Language Arts and Mathematics.\* The standards are organized into and color coded the same as grade level groupings in the Guide (Red for K-2, Green for 3-5, and Blue for 6-8), and within each grouping listed by core subject area (Science, Language Arts, Mathematics, and Social Studies) from the lowest grade to the highest. The standard type (NGSSS, FS, BEST) is noted for each standard, with the BEST Standards at the end of each grade level grouping. For each standard, a list of correlated activities is included with the corresponding page number for ease of location in the Guide.

#### **Grades:**

Grade levels targeted in the Guide activities are listed in the table. Teachers will have to determine if a standard that serves multiple grade levels is or is not appropriate for their particular student audience. Some activities may be adapted up or down for other grade levels at the teacher's discretion.

# **Applicability of Standards to Activities:**

Applicability of a standard to an activity is keyed to the *Doing the Activity*, *Variation*, and *Assessment* portions of the activity. Use of *Enrichments* as noted in the Guide, as well as C-Palms connections, could result in the applicability of standards not listed. Teachers are encouraged to adapt activities to meet the needs of their particular student audience. Doing so could also result in additional standards not listed in this table, or make some listed standards no longer applicable. Many activities contain a grade level *Variation* that expands the applicability of the activity beyond the target grade level. These are noted in the **Variation/Assessment** column of the tables and are highlighted in the color for the applicable grade level. For teacher convenience, this column also includes assessments that embrace specific standards, as well as activities broken into multiple parts or contain topic specific variations for the same grade level.

### **C-Palms Links:**

Each standard is hot linked to C-Palms. Simply click on the standard code to open the associated C-Palms page. There are substantial resources to support the Guide lessons on C-Palms. Included are items such as, but are not limited to:

- Access Points Expectations written for students with significant cognitive disabilities to access the general education curriculum, which reflect the core intent of the Standards with reduced levels of complexity. Each standard is broken down into Independent, Supported, and Participatory elements.
- **Related Resources** Numerous resources to facilitate teaching and learning are available for every standard/benchmark. Below are a few examples:
  - o **Teaching Ideas and Lesson Plans** Many of these facilitate extension of Guide lessons. For example, SC.4.P.9.1 provides a lesson plan entitled "Chemical Changes: Burning" that expands the Science concept *chemical change* to include Language Arts *identifying the main idea*.
  - o **Professional Development** For those educators who want more information about incorporating specific content or skills development into their lessons, websites and other resources are offered. For example, SC.5.L.17.1 offers a professional development entitled "Adaptation" that is designed to help teachers explore the meaning of standards-based instruction and will allow you to look extensively at concepts.
  - Video/Audio Animations, Images/Photographs, Educational Games, Presentations/Slide Shows, Worksheets, Center Ideas, and other teaching tools Numerous standards provide tools to support or expand Guide lessons. For example: SC.3.L.14.1 has text resources on plant parts.
  - o **STEM Lessons** Many Benchmarks offer STEM lessons, most of which require C-Palms membership to access (free and easy to sign up). The majority of the lessons are model-eliciting activities (MEAs), which encourage students to invent and test models.
  - Student Resources Mini-lessons intended for student use. For example, SC.7.L.17.3 offers 2 student tutorials, one of which is "Limits to Population Growth."

#### **Search the Tables:**

Press Ctrl + F and search for an activity name, concept, word, or standard number by typing it in the window that opens at the top of your screen. The number of times your search item appears in the tables, along with arrows to scroll through each occurrence are also in the window.

# **Acknowledgements:**

Correlations of the <u>Explore Your Environment: K-8 Activity Guide</u> to Florida Education Standards was made possible by an agreement between Florida Project Learning Tree/University of Florida and Gugliotti Environmental and Conservation Education Services – Nature Teach, and funded by the Sustainable Forestry Initiative 2021 Education Grant.





<b>Grades I</b>	X-2					
Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Science	SC.K.L.14.3	NGSSS	Observe plants and animals, describe how they are alike and how they are different in the way they look and in the things they do.		Backyard Safari	29
				A Tree's Life	14	
Science	SC.K.N.1.1	NGSSS			Here We Grow Again	57
Science SC.K.IN.1.1	110333	Collaborate with a partner to collect information.		Peppermint Beetle	68	
				Trees as Habitats	76	
		NGSSS	Make observations of the natural world and know that they are descriptors collected using the five senses.		A Tree's Life	14
Science	SC.K.N.1.2				Adopt a Tree	21
					Bursting Buds	40
					Adopt a Tree	21
					Birds and Bugs	35
					Bursting Buds	40
Science	SC.K.N.1.3	NGSSS	Keep records as appropriate such as pictorial records of investigations conducted.		Have Seeds, Will Travel	50
					Here We Grow Again	57
	İ				Trees as Habitats	76
					We All Need Trees	82

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					A Tree's Life	14
					Bursting Buds	40
				Assessment		43
Science	SC.K.N.1.4	NGSSS	Observe and create a visual representation of an object which includes its major features.		Have Seeds,	50
				Assessment	Will Travel	55
					Here We Grow Again	57
					The Closer You Look	72
					Adopt a Tree	21
Caiana.	CC V N 1 5	NCCCC			Make Your Own Paper	63
Science	SC.K.N.1.5	NGSSS	Recognize that learning can come from careful observation.		The Closer You Look	72
					Trees as Habitats	76
	Science <u>SC.K.P.8.1</u> NGSSS				Have Seeds, Will Travel	50
Science		Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight (heavy or light) and texture.		We All Need	82	
				Assessment	Trees	86

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					A Tree's Life	14
					Adopt a Tree	21
Science	SC.1.L.14.1	NGSSS	Make observations of living things and their environment using the five senses.		Bursting Buds	40
					Here We Grow Again	57
					Trees as Habitats	76
Science	SC.1.L.14.2	NGSSS	Identify the major parts of plants, including stem, roots, leaves, and flowers.		Have Seeds, Will Travel	50
Science	<u>5C.1.L.14.2</u>	NOSSS			The Closer You Look	72
Science	SC.1.L.14.3	NGSSS	Differentiate between living and nonliving things.		Adopt a Tree	21
Science	SC.1.L.17.1	NGSSS	Through observation, recognize that all plants and animals, including humans, need		Backyard Safari	29
Science	<u>SC.1.L.17.1</u>	NOSSS	the basic necessities of air, water, food, and space.		Here We Grow Again	57
			Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight (heavy or light), texture, and whether objects sink or float.		Have Seeds, Will Travel	50
Science	Science <u>SC.1.P.8.1</u> N	NGSSS			We All Need	82
			Assessment	Trees	86	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Adopt a Tree	21
					Backyard Safari	29
				Birds and Bugs	35	
Science	SC.1.N.1.1	NGSSS	Raise questions about the natural world, investigate them in teams through free		Have Seeds, Will Travel	50
Science <u>SC.1.IV.1.1</u>	1,0000	exploration, and generate appropriate explanations based on those explorations.		Here We	57	
				Assessment	Trees as Habitats	61
						76
				Assessment		79
					Adopt a Tree	21
					Birds and Bugs	35
					Bursting Buds	40
Science	SC.1.N.1.2	NGSSS	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.		Have Seeds, Will Travel	50
			observations with others.		Here We Grow Again	57
					The Closer You Look	72
					Trees as Habitats	50

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
			Keep records as appropriate - such as pictorial and written records - of investigations conducted.		Adopt a Tree	21	
	Science SC.1.N.1.3 NGSSS				Birds and Bugs	35	
Saianaa		NGSSS			Bursting Buds	40	
Science		NGSS		investigations conducted.		Have Seeds, Will Travel	50
					Here We Grow Again	57	
					Trees as Habitats	76	
Science	SC.2.L.16.1	NGSSS	Observe and describe major stages in the life cycles of plants and animals, including		Have Seeds, Will Travel	50	
Science	<u>5C.2.L.10.1</u>	NGSSS	beans and butterflies.		Here We Grow Again	57	
Science	SC.2.L.17.1	NGSSS	Compare and contrast the basic needs that all living things, including humans, have for survival.		Birds and Bugs	35	
Science	SC.2.L.17.2	NGSSS	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.		Backyard Safari	29	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Adopt a Tree	21
					Backyard Safari	29
					Birds and Bugs	35
			Daine acceptions about the continual countries to the continual form		Bursting Buds	40
Science	SC.2.N.1.1	NGSSS	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.		Have Seeds, Will Travel	50
					Here We	57
				Assessment	Grow Again	61
					Trees as	76
				Assessment	Habitats	79
Science	SC.2.N.1.2	NGSSS			Backyard Safari	29
Science	<u>SC.2.N.1.2</u>	NGSSS	Compare the observations made by different groups using the same tools.		The Closer You Look	72
Science	SC.2.N.1.3	NGSSS	Ask "how do you know?" in appropriate situations and attempt reasonable answers when asked the same question by others.		Did You Notice?	44
					Bursting Buds	40
Sajanaa	SC 2 N 1 5	NCCCC	Distinguish between empirical observation (what you see, hear, feel, smell, or taste)		Here We Grow Again	57
Science	Science <u>SC.2.N.1.5</u>	NGSSS	and ideas or inferences (what you think).		Peppermint Beetle	68
				Trees as Habitats	76	
Science	SC.3.L.17.1	NGSSS	Describe how animals and plants respond to changing seasons.	3-5	Bursting Buds	42

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Adopt a Tree	22
				3-5	Backyard Safari	31
			Raise questions about the natural world, investigate them individually and in teams		Birds and Bugs	38
Science	SC.3.N.1.1	NGSSS	through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	3-5	Here We	59
				Assessment	Grow Again	61
				Urban Environ.	Trees as Habitats	78
				Assessment		79
		SC.3.N.1.3 NGSSS	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	3-5	Birds and Bugs	38
Science	SC 2 N 1 2				Bursting Buds	42
Science	<u>SC.3.N.1.3</u>				Here We Grow Again	59
					We All Need Trees	85
Science	SC.3.N.1.4	NGSSS	Recognize the importance of communication among scientists.	3-5	Bursting Buds	42
				Urban Environ.	Trees as	78
Science	SC.3.N.1.6	NGSSS	Infer based on observation.	Assessment	Habitats	79
				Part B	Water Wonders	206
Science	SC.3.N.3.2	Recognize that scientists use models to help understand and explain how things		3-5	Peppermint	70
			work.	Assessment	Beetle	71
Science	SC.35.CS-CP.1.3	NGSSS	Identify, research, and collect a data set on a topic, issue, problem, or question using age-appropriate technologies.	3-5	Did You Notice?	46

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Science	SC.35.CS-CS.2.3	NGSSS	Explain the process of arranging or sorting information into useful order as well as the purpose for doing so.	3-5	Did You Notice?	46
Science	SC.35.CS-PC.3.1	NGSSS	Identify digital information resources used to answer research questions (e.g., online library catalog, online encyclopedias, databases, and websites).	3-5	Did You Notice?	46
Science	SC.35.CS-PC.3.2	NGSSS	Gather, organize, and analyze information from digital resources.	3-5	Did You Notice?	46
Science	SC.4.E.6.3	NGSSS	Recognize that humans need resources found on Earth and that these are either renewable or nonrenewable.	3-5	We All Need Trees	85
Science	SC.4.L.16.1	NGSSS	Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.	3-5	Have Seeds, Will Travel	54
Science	SC.4.L.16.4	NGSSS	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	3-5	A Tree's Life	17
				3-5	Adopt a Tree	22
			Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.		Backyard Safari	31
Science	SC.4.N.1.1	NGSSS			Birds and Bugs	38
Science	50.4.14.1.1	140355			Bursting Buds	42
				3-5	Here We Grow Again	59
				Assessment		61
					Adopt a Tree	22
Science	SCAN14	SC.4.N.1.4 NGSSS	Attempt reasonable answers to scientific questions and cite evidence in support.	3-5	Here We Grow Again	59
Science	<u>5C.T.IV.I.T</u>			Urban Environ.	Trees as	78
				Assessment	Habitats	79

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Adopt a Tree	22
				3-5	Backyard Safari	31
Science	<u>SC.4.N.1.6</u>	NGSSS	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.		Birds and Bugs	38
				Urban Environ.	Trees as Habitats	78
					We All Need Trees	85
				3-5	Here We	59
		SC.4.N.1.7 NGSSS	Recognize and explain that scientists base their explanations on evidence.	Assessment	Grow Again	61
Science	SCAN 17			Urban Environ.	Trees as Habitats  We All Need Trees	78
Science	SC.4.N.1.7			Assessment		79
				3-5		85
				Assessment		86
Science	SC.4.N.1.8	NGSSS	Recognize that science involves creativity in designing experiments.	2.5	Have Seeds, Will Travel	54
Science	<u>SC.4.IV.1.0</u>	NGSSS	Recognize that science involves creativity in designing experiments.	3-5	Here We Grow Again	59
Science	SC.5.L.15.1	NGSSS	Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.	3-5	Birds and Bugs	38
			Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics	3-5	Birds and Bugs	38
Science	SC.5.L.17.1			Assessment		39
			3-5	Have Seeds, Will Travel	54	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Science	<u>SC.5.N.1.1</u>	NGSSS	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	3-5	Here We Grow Again	59
Science	SC.5.N.1.4	NGSSS	Identify a control group and explain its importance in an experiment.	3-5	Here We Grow Again	59
				Urban Environ.	Trees as Habitats	78
Science	<u>SC.5.N.1.6</u>	NGSSS	Recognize and explain the difference between personal opinion/interpretation and verified observation.	3-5	We All Need	85
				Assessment	Trees	86
Science	SC.5.N.2.1	NGSSS	Recognize and explain that science is grounded in empirical observations that are	3-5	Here We Grow Again	59
Science	<u>5C.J.IV.Z.1</u>	NOSS	testable; explanation must always be linked with evidence.	Assessment		61
					A Tree's Life	14
Y A		EG	Participate in collaborative conversations with diverse partners about <i>kindergarten topics</i> and texts with peers and adults in small and larger groups.		Backyard Safari	29
Language Arts	LAFS.K.SL.1.1	FS	<ul><li>a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion).</li><li>b. Continue a conversation through multiple exchanges.</li></ul>		Did You Notice?	44
					Trees as Habitats	76
Languaga Arts	LAFS.K.SL.2.4	FS	Describe familiar people, places, things, and events and, with prompting and		Adopt a Tree	21
Language Arts	LAFO.N.SL.2.4	ГЭ	support, provide additional detail.		Backyard Safari	29
Language Arts	LAFS.K.SL.2.5	FS	Add drawings or other visual displays to descriptions as desired to provide additional detail.		Here We Grow Again	57

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					A Tree's Life	14
					Backyard Safari	29
Language	LAFS.K.SL.2.6	FS			Did You Notice?	44
Arts	LAFS.K.SL.2.0	L2	Speak audibly and express thoughts, feelings, and ideas clearly.		Here We Grow Again	57
					Trees as Habitats	76
					We All Need Trees	82
Language	LAFS.K.W.1.2	FS	Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and		Adopt a Tree	21
Arts	LAI S.R. W.1.2	1.9	supply some information about the topic.	Assessment		42
Language	LAFS.K.W.1.3	FS	Use a combination of drawing, dictating, and writing to narrate a single event or several loosely linked events, tell about the events in the order in which they		Adopt a Tree	21
Arts	LAIS.R.W.1.5	1.9	occurred, and provide a reaction to what happened.	Assessment	Adopt a Tree	24
Language			Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and		A Tree's Life	14
Arts	LAFS.K12.L.3.6	FS	career readiness level; demonstrate independence in gathering vocabulary knowledge when encountering an unknown term important to comprehension or expression.		Adopt a Tree	21
					Trees as	76
Language	LAFS.K12.SL.1.1		Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and	Urban Environ.	Habitats	78
Arts			persuasively.		We All Need	82
				3-5	Trees	85

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
				2.5	A Tree's Life	17	
Language	Language LAFS.K12.SL.2.4	FS	Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are	Present information, findings, and supporting evidence such that listeners can	3-5	Did You Notice?	46
Arts	<u> </u>		appropriate to task, purpose, and audience.		Trees as	76	
				Urban Environ.	Habitats	78	
					A Tree's Life	14	
Language Arts	LAFS.K12.SL.2.5	FS	Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.	3-5	A free s Life	17	
				3-5	Did You Notice?	46	
		AFS.K12.W.1.3 FS	Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences.		Adopt a Tree	21	
Language	LAEC V12 W 1 2			Assessment	Adopt a Tree	24	
Arts	<u>LAFS.R12.W.1.5</u>				Backyard	29	
				Assessment	Safari	32	
					Adopt a Tree	21	
				Assessment		24	
Language	LAFG WIO WIO A	EG	Produce clear and coherent writing in which the development, organization, and		Backyard	29	
Arts	LAFS.K12.W.2.4	FS	style are appropriate to task, purpose, and audience.	Assessment	Safari	32	
				3-5	Make Your	66	
				Assessment	Own Paper	67	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					A Tree's Life	14
				3-5	Make Your Own Paper	66
Language	LAFS.K12.W.3.7	FS	Conduct short as well as more sustained research projects based on focused	3-5	Peppermint Beetle	70
Arts			questions, demonstrating understanding of the subject under investigation.  Assessmer  Urban Environ.	Assessment		71
					Trees as Habitats	76
						78
Language Arts	LAFS.K12.W.3.9	FS	Draw evidence from literary or informational texts to support analysis, reflection, and research.		A Tree's Life	14
			Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.		A Tree's Life	14
Language	I AEC 1 CI 1 1	FS	a. Follow agreed-upon rules for discussions (e.g., listening to others with care, speaking one at a time about the topics and texts under discussion).		Backyard Safari	29
Arts	LAFS.1.SL.1.1	others through multiple ex	<ul><li>b. Build on others' talk in conversations by responding to the comments of others through multiple exchanges.</li><li>c. Ask questions to clear up any confusion about the topics and texts under</li></ul>		Did You Notice	44
					Trees as Habitats	76

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					A Tree's Life	21
					Backyard Safari	29
					Did You Notice?	44
Language Arts	<u>LAFS.1.SL.2.4</u>	FS	Describe people, places, things, and event relevant details, expressing ideas and feelings clearly.		Have Seeds, Will Travel	50
					Here We Grow Again	57
					Trees as	76
				Assessment	Habitats	79
					We All Need Trees	82
Language	I AFS 1 SI 2 5	AFS.1.SL.2.5 FS	Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings.		Did You Notice?	44
Arts	<u>LAI3.1.3L.2.3</u>				Here We Grow Again	57
Language Arts	<u>LAFS.1.W.1.2</u>	FS	Write informative/explanatory texts in which they name a topic, supply some facts about the topic, and provide some sense of closure.	Assessment	Backyard Safari	32
Language	LAECIWII	Ed	Write narratives in which they recount two or more appropriately sequenced events,		A.1	21
Arts	<u>LAFS.1.W.1.3</u>	FS	include some details regarding what happened, use temporal words to signal event order, and provide some sense of closure.	Assessment	Adopt a Tree	24
			Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.		A Tree's Life	14
Language	LAEC 2 CL 1 1	EG	a. Follow agreed-upon rules for (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and		Backyard Safari	29
Arts	LAF5.2.5L.1.1	b. Build on othe remarks of oth c. Ask for clarif	<ul><li>texts under discussion).</li><li>b. Build on others' talk in conversations by linking their comments to the remarks of others.</li></ul>		Did You Notice?	44
			<ul> <li>Ask for clarification and further explanation as needed about the topics and texts under discussion.</li> </ul>		Trees as Habitats	76
Language Arts	LAFS.2.SL.2.4	FS	Tell a story or recount an experience with appropriate facts and relevant, descriptive details, speaking audibly in coherent sentences.		A Tree's Life	14

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.2.W.3.7	FS	Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations).		Trees as Habitats	76
Language Arts	<u>LAFS.3.RI.1.3</u>	FS	Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.	3-5	Did You Notice?	46
			Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 <i>topics and texts</i> , building on	3-5	A Tree's Life	17
			others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the		Backyard Safari	31
Language Arts	LAFS.3.SL.1.1	FS	topic to explore ideas under discussion.  b. Follow agreed-upon rules for discussions (e.g., gaining the floor in		Here We Grow Again	59
	1144		respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).  c. Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.  d. Explain their own ideas and understanding in light of the discussion.	Urban Environ.	Trees as Habitats	78
				3-5	We All Need Trees	85
Language	LAFS.3.SL.2.4	FS	Report on a topic or text, tell a story, or recount an experience with appropriate	3-5	Make Your	66
Arts	LAI'S.3.3L.2.4	1.2	facts and relevant, descriptive details, speaking clearly at an understandable pace.	Assessment	Own Paper	67
Language	LAFS.3.W.1.3	FS	Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.  a. Establish a situation and introduce a narrator and/or characters; organize an event sequence that unfolds naturally.	Urban Environ.	Trees as	78
Arts LAFS.3.W.1.3	r <sub>S</sub>	<ul> <li>b. Use dialogue and descriptions of actions, thoughts, and feelings to develop experiences and events or show the response of characters to situations.</li> <li>c. Use temporal words and phrases to signal event order.</li> <li>d. Provide a sense of closure.</li> </ul>	Assessment	Habitats	79	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					A Tree's Life	17
				3-5	Did You Notice?	46
Language	LAFS.3. W.3.7	FS	Conduct short research projects that build knowledge about a topic.		Here We Grow Again	59
Arts	<u>Diff 9.3. W.3.7</u>	15	Conduct short research projects that build knowledge about a topic.	3-5	Peppermint Beetle	70
				Assessment		71
				Urban Environ.	Trees as Habitats	78
Language	LAFS.3.W.3.8	FS	Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories.	3-5	Did You Notice?	46
Arts	<u>LAI'S.3.W.3.8</u>	ГЗ			We All Need Trees	85
Language Arts	LAFS.4.RI.1.3	FS	Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text	3-5	Did You Notice?	46
			Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade <i>4 topics and texts</i> , building on		A Tree's Life	17
			others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material;	3-5	Did You Notice?	46
Language Arts	LAFS.4.SL.1.1	FS	<ul><li>explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.</li><li>b. Follow agreed-upon rules for discussions and carry out assigned roles.</li></ul>		Here We Grow Again	59
		c. Pose and respond to specific questions to clarify or follow up on	c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link	Urban Environ.	Trees as Habitats	78
			d. Review the key ideas expressed and explain their own ideas and		We All Need Trees	85

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				3-5	A Tree's Life	17
				Assessment	A free s Life	18
Language	LAFS.4.SL.2.4	FS	Report on a topic or text, tell a story, or recount an experience in an organized manner, using appropriate facts and relevant, descriptive details to support main	3-5	Trees as Habitats	66
Arts	<u>LAI'S.4.3L.2.4</u>	СЭ	ideas or themes; speak clearly at an understandable pace.	Assessment		67
				Urban Environ.		78
				Assessment		79
Language	I AEC 4 CL 2 5	FS	Add audio recordings and visual displays to presentations when appropriate to	3-5	A Tree's Life	17
Arts	LAFS.4.SL.2.5	FS	enhance the development of main ideas or themes.	3-3	Did You Notice?	46
Language Arts	LAFS.4.W.1.3	FS	<ul> <li>Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.</li> <li>a. Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.</li> <li>b. Use dialogue and description to develop experiences and events or show the responses of characters to situations.</li> <li>c. Use a variety of transitional words and phrases to manage the sequence of events.</li> <li>d. Use concrete words and phrases and sensory details to convey experiences and events precisely.</li> <li>e. Provide a conclusion that follows from the narrated experiences or events.</li> </ul>	Assessment	Trees as Habitats	79
Language	LAFS.4.W.2.4	FS	Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience. (Grade-specific expectations for writing	3-5	Make Your	66
Arts	LAT 3.4. W.2.4	1.9	types are defined in standards 1–3 above.)		Own Paper	67

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					A Tree's Life	17
				3-5	Did You Notice?	46
Language	LAFS.4. W.3.7	FS	Conduct short research projects that build knowledge through investigation of	5-3	Here We Grow Again	59
Arts	LAF5.4. W.5./	Lo	different aspects of a topic.		Peppermint Beetle	70
			Urban Environ.	Trees as Habitats	78	
				3-5	We All Need Trees	85
Language Arts	LAFS.4.W.3.8	FS	Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources.	3-5	Did You Notice?	46
Language Arts	LAFS.4. W.3.9	FS	Draw evidence from literary or informational texts to support analysis, reflection, and research.  a. Apply grade 4 Reading standards to literature (e.g., "Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text [e.g., a character's thoughts, words, or actions].").  b. Apply grade 4 Reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text").	3-5	A Tree's Life	17
Language Arts	LAFS.5.RI.1.3	FS	Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.	3-5	Did You Notice?	46
Language Arts	LAFS.5.RI.3.7	FS	Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.	3-5	A Tree's Life	17

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
		Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on <i>grade 5 topics and texts</i> , building on		A Tree's Life	17	
			others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material;	3-5	Did You Notice?	46
Language Arts	<u>LAFS.5.SL.1.1</u>	FS	<ul><li>explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.</li><li>b. Follow agreed-upon rules for discussions and carry out assigned roles.</li></ul>		Here We Grow Again	59
			c. Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others.	Urban Environ.	Trees as Habitats	78
		d. Review the key ideas expressed and draw conclusions in light of information and knowledge gained from the discussions.	3-5	We All Need Trees	85	
Language Arts	LAFS.5.SL.2.4	FS	Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.	3-5	Make Your Own Paper	66
Language	LAFS.5.SL.2.5	FS	Include multimedia components (e.g., graphics, sound) and visual displays in presentations when appropriate to enhance the development of main ideas or	3-5	A Tree's Life	17
Arts	LAI'S.J.SL.2.3	гъ	themes.	3-3	Did You Notice?	46
Language Arts	<u>LAFS.5.W.1.3</u>	FS	<ul> <li>Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.</li> <li>a. Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.</li> <li>b. Use narrative techniques, such as dialogue, description, and pacing, to develop experiences and events or show the responses of characters to situations.</li> <li>c. Use a variety of transitional words, phrases, and clauses to manage the sequence of events.</li> <li>d. Use concrete words and phrases and sensory details to convey experiences and events precisely.</li> <li>e. Provide a conclusion that follows from the narrated experiences or events.</li> </ul>	Assessment	Trees as Habitats	79
Language	LAFS.5.W.2.4	FS	Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience. (Grade-specific expectations for writing	3-5	Make Your	66
Arts	<u>D/ 11 D.J. 11 .Z.T</u>	15	types are defined in standards 1–3 above.)	Assessment	Own Paper	67

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				3-5	A Tree's Life	17
Language Arts	LAFS.5. W.3.7	FS	Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.	3-3	Did You Notice?	46
				Urban Environ.	Trees as Habitats	78
Language Arts	LAFS.5.W.3.8	FS	Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources.	3-5	Did You Notice?	46
			Draw evidence from literary or informational texts to support analysis, reflection, and research.		A Tree's Life	17
Language Arts	LAFS.5. W.3.9	FS	<ul> <li>a. Apply grade 5 Reading standards to literature (e.g., "Compare and contrast two or more characters, settings, or events in a story or a drama, drawing on specific details in the text [e.g., how characters interact]").</li> <li>b. Apply grade 5 Reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point[s]").</li> </ul>	3-5	Did You Notice?	46
Social Studies	SS.K.A.1.1	NGSSS	Develop an understanding of how to use and create a timeline.		Did You Notice?	44
Social Studies	SS.1.A.3.2	NGSSS	Create a timeline based on the student's life or school events, using primary sources.		Did You Notice?	44
Social Studies	SS.3.A.1.2	NGSSS	Utilize technology resources to gather information from primary and secondary sources.	3-5	Did You Notice?	46
Mathematics	MAFS.K.MD.2.3	FS	Classify objects into given categories; count the numbers of objects in each		Birds and Bugs	35
Maurematics	MIAI S.K.MID.2.3	1.9	category and sort the categories by count.		Have Seeds, Will Travel	50

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Mathematics	MAFS.K12.MP.2.1	FS	Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.	3-5	Birds and Bugs	38
Mathematics	MAFS.K12.MP.4.1	FS	Model with Mathematics. Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	3-5	Here We Grow Again	59
Mathematics	MAFS.1.MD.3.4	FS	Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.		Birds and Bugs	35
		Measure the length of an object to the nearest inch, foot, centimeter, or meter by selecting and using appropriate tools such as rulers, yardsticks, meter stick and measuring tapes.	Massure the length of an object to the pageout inch foot, continuous or mater		Adopt a Tree	21
Mathematics	MAFS.2.MD.1.1		by selecting and using appropriate tools such as rulers, yardsticks, meter sticks,		Bursting Buds	40
				Here We Grow Again	57	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Mathematics	MAFS.2.MD.4.10	FS	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and		Birds and Bugs	35
Maniemanes	MAI 5.2.MD.4.10	rs	compare problems using information presented in a bar graph.		Have Seeds, Will Travel	50
Mathematics	MAFS.3.MD.2.3	FS	Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs. <i>For example</i> ,	3-5	Birds and Bugs	38
			draw a bar graph in which each square in the bar graph might represent 5 pets.		Have Seeds, Will Travel	53
Language Arts	ELA.K.C.1.2	BEST	Using a combination of drawing, dictating, and/or writing, create narratives with the events in chronological order.		Make Your Own Paper	63
					Adopt a Tree	21
Language	ELA.K.C.1.4	ELA.K.C.1.4 BEST	Using a combination of drawing, dictating, and/or writing, provide factual information about a topic.	Assessment		24
Arts					Make Your	63
				Assessment	Own Paper	67
Language	ELA.K.C.5.1	BEST	Use a multimedia element to enhance oral or written tasks.			21
Arts	<u> </u>	BEST	ose a manamedia cioniene to cimanee orai or written tasas.	Assessment	Adopt a Tree	24
					Here We	57
				Assessment	Grow Again	61
Language	ELA.K12.EE.1.1	BEST	Cite evidence to explain and justify reasoning.		Trees as	76
Arts	ELA,N12.EE.1.1	ELA.K12.EE.1.1 BEST Cite evidence	Cite evidence to explain and justify reasoning.	Assessment	Habitats	79
				3-5	We All Need Trees	85
				Assessment		86

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
					Trees as	76	
Language Arts	ELA.K12.EE.3.1	BEST	Make inferences to support comprehension.	Assessment	Habitats	79	
				3-5	We All Need Trees	85	
			Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.		A Tree's Life	14	
Language Arts	ELA.K12.EE.4.1	BEST			Backyard Safari	29	
				Trees as Habitats	76		
Language	EL A V12 EE 6 1	BEST	Use appropriate voice and tone when speaking or writing.		A Tree's Life	14	
Arts		BES1 C	ose appropriate voice and tone when speaking or writing.		Backyard Safari	29	
Language	ELA 1 C 4 1	DECT	ELA.1. C.4.1  BEST  Participate in research to gather information to answer a question about	Participate in research to gather information to answer a question about a single		A Tree's Life	14
Arts	ELA.1. C.4.1	BEST	topic.		Trees as Habitats	76	
Language	ELA.1. C.5.1	BEST	Use a multimedia element to enhance oral or written tasks.		Adopt a	21	
Arts	ELA.1. C.3.1	DEST	Ose a multimedia element to emiance oral of written tasks.	Assessment	Tree	24	
Language Arts	ELA.K.V.1.1	BEST	Use grade-level academic vocabulary appropriately in speaking and writing.		A Tree's Life	14	
Language Arts	ELA.1. V.1.3	BEST	Identify and use picture clues, context clues, word relationships, reference materials, and/or background knowledge to determine the meaning of unknown words.		A Tree's Life	14	
Language	ELA.2. C.1.2	Write personal or fictional narratives using a logical sequence of events,	rite personal or fictional narratives using a logical sequence of events,	Adopt a	21		
Arts	BDA.2. C.1.2	DEST	transitions, and an ending.	Assessment	Tree	24	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	ELA 2 G 4 1	рест	Participate in research to gather information to answer a question about a single		A Tree's Life	14
Arts	ELA.2. C.4.1	BEST BEST Participate in research to gather information to answer a question about a single topic using multiple sources.			Trees as Habitats	76
Language Arts	ELA.2. C.5.1	BEST	Use one or more multimedia element(s) to enhance oral or written tasks.		Adopt a Tree	21
Language	EI A 2 W 1 1	BEST			A Tree's Life	14
Arts	ELA.2. V.1.1	BEST	Use grade-level academic vocabulary appropriately in speaking and writing.	Assessment		18
Language Arts	ELA.2. V.1.3	BEST	Identify and use context clues, word relationships, reference materials, and/or background knowledge to determine the meaning of unknown words.		A Tree's Life	14
MA K DD 11	AA V DD 1.1 DEST	Collect and sort objects into categories and compare the categories by counting the objects in each category. Report the results verbally, with a written numeral or with drawings.		Birds and Bugs	35	
Mathematics	MA.K.DP.1.1			Have Seeds, Will Travel	50	
		MA.K12.MTR.7.1 BEST	Apply mathematics to real-world contexts.  Mathematicians who apply mathematics to real-world contexts:  Connect mathematical concepts to everyday experiences.  Use models and methods to understand, represent and solve problems.  Perform investigations to gather data or determine if a method is appropriate.  Redesign models and methods to improve accuracy or efficiency.		Birds and Bugs	35
Mathematics	MA.K12.MTR.7.1				Bursting Buds	40
					Here We Grow Again	57
N. 1	MA 1 DD 1 1	DEGE	Collect data into categories and represent the results using tally marks or		Birds and Bugs	35
Mathematics	MA.1.DP.1.1	BEST	pictographs.		Have Seeds, Will Travel	50
Mathematics	MA.1.DP.1.2	BEST	Interpret data represented with tally marks or pictographs by calculating the total number of data points and comparing the totals of different categories.		Birds and Bugs	35
Mathematics	MA.2.DP.1.1	BEST	Collect, categorize and represent data using tally marks, tables, pictographs or bar graphs. Use appropriate titles, labels and units.		Birds and Bugs	35
Mathematics	MA.2.DP.1.2	BEST	Interpret data represented with tally marks, tables, pictographs or bar graphs including solving addition and subtraction problems.		Birds and Bees	35
Mathematics	MA.2.M.1.1	BEST	Estimate and measure the length of an object to the nearest inch, foot, yard, centimeter or meter by selecting and using an appropriate tool.		Here We Grow Again	57

# Grades 3 - 5

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
Science	SC.K.N.1.1	NGSSS	Collaborate with a partner to collect information.	K-2	Discover Diversity	101	
Science	SC.K.N.1.3	NGSSS	Keep records as appropriate such as pictorial records of investigations conducted.	K-2	Get Outside!	126	
Science	SC.1.L.14.1	NGSSS	Make observations of living things and their environment using the five senses.	K-2	Tree Cookies	174	
	SC.1.L.14.1 NOSSS	1,0000	Transfer object, among a mage and area on a mountain asing are transfer.		Tree Factory	183	
Science	SC.1.L.14.2	NGSSS	Identify the major parts of plants, including stem, roots, leaves, and flowers.	K-2 Assessment	Two Fostows	183	
Science	SC.1.L.14.2	Caadin	identity the major parts of plants, including stem, roots, leaves, and nowers.		Tree Factory	185	
Science	SC.1.L.17.1	NGSSS	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	K-2	Every Tree for Itself	113	
Science	SC.1.N.1.2	NGSSS	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	K-2	Discover Diversity	101	
Science	SC.1.N.1.3	SC 1 N 1 3 NGSSS		Keep records as appropriate - such as pictorial and written records - of	K-2	Every Tree for Itself	113
Solution	2011111	1,0000	investigations conducted.		Get Outside!	126	
Science	SC.2.N.1.2	NGSSS	Compare the observations made by different groups using the same tools.	K-2	Discover	101	
Science	56.2.11.1.2	NOSSS	Compare the observations made by different groups using the same tools.	Assessment	Diversity	102	
			Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.		Part A	Tree Cookies	171
Science	SC.3.L.14.1					180	
				Assessment	Tree Factory	185	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
					Part A	Signs of Fall	155
				Assessment	Signs of Fan	159	
Science	SC.3.L.17.1	NGSSS	Describe how animals and plants respond to changing seasons.	Part A		171	
				Part B	Tree Cookies	1/1	
				Assessment		175	
Science	SC.3.L.17.2	NGSSS	Recognize that plants use energy from the Sun, air, and water to make their own		Tree	171	
Science	SC.3.L.17.2	NGSSS	food.	Assessment	Cookies	175	
					Charting Biodiversity	90	
				Plant Adaptations		92	
					Discover Diversity	97	
					Fallen Log	116	
Science	SC.3.N.1.1	NGSSS	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.		Get Outside!	121	
		explanations based on those explorations.	on promise of the control of the con	Part A	Soil	161	
				Part B	Builders	101	
				Part A	Trees in Trouble	107	
				Part B		197	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
					Discover	97	
Science	SC.3.N.1.2	NGSSS	Compare the observations made by different groups using the same tools and seek	Assessment	Diversity	102	
Science	<u> </u>	1(0000	reasons to explain the differences across groups.		Get Outside!	121	
				Part A	Soil Builders	161	
					Charting	90	
				Plant Adaptations	Biodiversity	92	
			Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.		Discover Diversity	97	
	<u>SC.3.N.1.3</u> NGSS				Every Drop Counts	104	
					Every Tree for Itself	110	
					Fallen Log	116	
Science					Get Outside!	121	
				Part A	Signs of Fall	155	
				Part A	Soil	161	
				Part B	Builders	101	
					Part A	Trees in	197
			]	Part B	Trouble	197	
				Part A	Water Wonders	206	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Discover	97
				Assessment	Diversity	102
					Fallen Log	116
				Part A	G'	155
		SC.3.N.1.6  NGSSS Infer based on observation.  Part  Assess  Part  Part		Assessment (Part B)	t A Tree Cookies	159
Science	SC.3.N.1.6		Infer based on observation.	Part A		171
				Assessment		175
			Part A	Trees in Trouble	197	
			Part B		197	
			Assessment		201	
				Part B	Water Wonders	206
Sajanaa	SC 3 N 1 7		Explain that empirical evidence is information, such as observations or	Part B Assessment	Signs of Fall	159
Science	Science SC.3.N.1.7		measurements, that is used to help validate explanations of natural phenomena.	Assessment	Soil Builders	167

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
						Every Tree for Itself	110
					Tree Factory	180	
				Assessment	Tree Factory	185	
Science	SC.3.N.3.2	NGSSS	Recognize that scientists use models to help understand and explain how things work.	Part A		206	
				Part B	Water Wonders		
				Assessment	Web of Life	212	
						216	
				Assessment		220	
Science	SC.3.N.3.3	NGSSS	Recognize that all models are approximations of natural phenomena; as such, they		Every Tree for Itself	110	
			do not perfectly account for all observations.		Tree Factory	180	
			NGSSS Compare materials and objects according to properties such as size, shape, color, texture, and hardness.	Part A		105	
Science	SC.3.P.8.3	NGSSS		Part B	Tree ID	186	
				Assessment		191	
Sai	SC 2 D 0 1	NCCCC	Describe the changes water undergoes when it changes state through heating and	Part A	Water	206	
Science	SC.3.P.9.1	NGSSS	cooling by using familiar scientific terms such as melting, freezing, boiling, evaporation, and condensation.	Assessment	Wonders	212	
Science	SC.35.CS-CS.2.1	NGSSS	Solve age-appropriate problems using information organized using digital graphic organizers (e.g., concept maps and Venn-diagrams).	Assessment	Tree ID	191	
Science	SC.35.CS-CP.1.3	NGSSS	Identify, research, and collect a data set on a topic, issue, problem, or question using age-appropriate technologies.		Web of Life	216	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number		
						Part A	Every Drop	104
			Recognize that humans need resources found on Earth and that these are either	Part B	Counts	104		
Science	SC.4.E.6.3	NGSSS	renewable or nonrenewable.		My Green Future	132		
					Trees for Many Reasons	193		
Science	<u>SC.4.E.6.4</u>	NGSSS	Describe the basic differences between physical weathering (breaking down of rock by wind, water, ice, temperature change, and plants) and erosion (movement of rock by gravity, wind, water, and ice).	Part B	Water Wonders	206		
Science	SC.4.L.17.2		Explain that animals, including humans, cannot make their own food and that when animals eat plants or other animals, the energy stored in the food source is passed to		Web of Life	Web of Life -	216	
Belefice	<u>50.11.2.17.2</u>	TYGBBB	them.	Assessment		220		
				Part A	Every Drop	104		
					Part B	Counts	104	
			Recognize ways plants and animals, including humans, can impact the environment.		Fallen Log	116		
Science	SC.4.L.17.4	SC.4.L.17.4 NGSSS			My Green Future	132		
					Peek at Packaging	136		
					Trees for Many Reasons	193		
			Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic		Charting	90		
Science	SC.4.N.1.1	SC.4.N.1.1 NGSSS		Plant Adaptations	Biodiversity	92		
			investigations, and generate appropriate explanations based on those explorations.		Fallen Log	116		

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Discover	97
Science	SC.4.N.1.2	NGSSS	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Assessment	Diversity	102
					Get Outside!	121
					Fallen Log	116
			NGSSS Attempt reasonable answers to scientific questions and cite evidence in support.	Part A	Soil	161
Science	SC.4.N.1.4	NCCCC		Assessment	Tree ID  Trees in	97
Science		NUSSS		Assessment		191
				Part A		197
				Assessment	Trouble	201
					Discover	97
Caianaa	SC 4 N 1 5	NCCCC		Assessment	Diversity	102
Science	<u>SC.4.N.1.3</u>	SC.4.N.1.5 NGSSS	Compare the methods and results of investigations done by other classmates.		Get Outside!	121
				Part A	Soil Builders	161

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number		
						Discovery Diversity	97	
					Every Tree for Itself	110		
					Fallen Log	116		
Science	SC.4.N.1.6	NGSSS	Keep records that describe observations made, carefully distinguishing actual		Get Outside!	121		
gelence	<u>50.1.11.1.0</u>	observations from ideas and inferences	observations from ideas and inferences about the observations.	Part A	Soil	161		
						Part B	Builders	101
				Part A	Part A	Tree Cookies	171	
				Part A	Water Wonders	206		
				Part A	Every Drop Counts	104		
					Fallen Log	116		
				Part A	Ciana af Fall	155		
Science	SC.4.N.1.7	NGSSS	Recognize and explain that scientists base their explanations on evidence.	Assessment	Signs of Fall	159		
				Assessmen	Assessment	Soil Builders	167	
			Part A	Trees in	197			
				Assessment	Trouble	201		

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
						Every Tree for Itself	110
Science	SC.4.N.1.8	NGSSS		Assessment	Soil Builders	167	
Science	<u>5C.4.11.1.0</u>	NOSSS	Recognize that science involves creativity in designing experiments.	Part B	Trees in Trouble	197	
				Part B	Water Wonders	206	
					Tree Factory	180	
				Part A		206	
Science	SC.4.N.3.1	NGSSS	Explain that models can be three dimensional, two dimensional, an explanation in your mind, or a computer model.	Part B	Water Wonders Web of Life		
				Assessment		212	
						216	
				Assessment	Web of Life	220	
				Part A	Tree ID	186	
Science	SC.4.P.8.1		including: mass, shape, volume, color, hardness, texture, odor, taste, attraction to magnets.	Part B		100	
			magnets.	Assessment		191	
Science	SC.4.P.8.2	NGSSSS	Identify properties and common uses of water in each of its states.	Part A	Water	206	
Science	50.1.1.0.2	CCCCDVI	ruentity properties and common uses of water in each of its states.	Assessment	Wonders	212	
Science	SCAP01	MGGGG	Identify some familiar changes in materials that result in other materials with		Fallen Log	116	
Science	Science <u>SC.4.P.9.1</u>	NGSSS NGSSS	different characteristics, such as decaying animal or plant matter, burning, rusting, and cooking.	Part A	Soil Builders	161	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A		206
Science	SC.5.E.7.1	NGSSS	Create a model to explain the parts of the water cycle. Water can be a gas, a liquid, or a solid and can go back and forth from one state to another.	Part B	Water Wonders	
				Assessment		212
Science	SC.5.E.7.2	NGSSS	Recognize that the ocean is an integral part of the water cycle and is connected to	Part A	Water Wonders	206
Science	5C.3.E.7.2	110333	all of Earth's water reservoirs via evaporation and precipitation processes.	Assessment		212
Science	SC.5.L.14.2	NGSSS	Compare and contrast the function of organs and other physical structures of plants and animals, including humans, for example: some animals have skeletons for support some with internal skeletons others with exoskeletons while some plants have stems for support.		Tree Factory	180
	SC.5.L.15.1	Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.	allow some plants and animals to survive and reproduce while others die or move		Discover Diversity	97
Science					Every Tree for Itself	110
				Trees for Many Reasons	193	
						90
Science	SC.5.L.17.1	SC.5.L.17.1 NGSSS	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Plant Adaptations	Charting Biodiversity	92
Science	SC.3.L.17.1	110000		Assessment		93
				Part A	Signs of Fall	155

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A	Every Drop	104
			Define a problem, use appropriate reference materials to support scientific	Part B	Counts	104
Science	SC.5.N.1.1	NGSSS	understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics,		Get Outside!	121
			analyze information, make predictions, and defend conclusions.	Part B	Soil Builders	161
				Assessment		167
		SC.5.N.1.2 NGSSS	Explain the difference between an experiment and other types of scientific investigation.	Part A	Trees in Trouble  Water Wonders	197
g .	CC 5 N 1 2		IGSSS	Part B		
Science	<u>SC.5.N.1.2</u>			Part A		206
				Part B		206
				Part A	Soil Builders  Tree Cookies	1.61
				Part B		161
Science	SC.5.N.1.6		Recognize and explain the difference between personal opinion/interpretation and verified observation.	Assessment		167
				Part A		171
				Assessment		175

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment (Part B)	Signs of Fall	159
			Recognize and explain that science is grounded in empirical observations that are	Part A	Soil Builders	161
Science	SC.5.N.2.1	NGSSS		Assessment		167
Science	<u>5C.J.IV.Z.1</u>	NOSS	testable; explanation must always be linked with evidence.	Part A		107
				Part B	Trees in Trouble	197
				Assessment		201
Science	SC.5.N.2.2	NGSSS	Recognize and explain that when scientific investigations are carried out, the evidence produced by those investigations should be replicable by others.		Get Outside!	121
Science	SC.5.P.8.3	NGSSS	Demonstrate and explain that mixtures of solids can be separated based on observable properties of their parts such as particle size, shape, color, and magnetic attraction.	Part A	Soil Builders	161
			Define a problem from the sixth grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific	6-8	Trees in	200
Science	SC.6.N.1.1	NGSSS	investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Assessment	Trouble	201
Science	SC.6.N.1.3	NGSSS	Explain the difference between an experiment and other types of scientific investigation, and explain the relative benefits and limitations of each.	6-8	Trees in Trouble	200
Science	SC.6.N.1.5	NGSSS	Recognize that science involves creativity, not just in designing experiments, but	6-8	Signs of Fall	158
Science	<u>SC.0.N.1.3</u>	NUSSS	also in creating explanations that fit evidence.	0-8	Trees in Trouble	200
Science	SC.7.E.6.6	NGSSS	Identify the impact that humans have had on Earth, such as deforestation, urbanization, desertification, erosion, air and water quality, changing the flow of water.	6-8	Trees for Many Reasons	195
			Define a problem from the seventh grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific	6-8	Trees in	200
Science	SC.7.N.1.1	NGSSS	investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.		Trouble	201

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Science	SC.7.N.1.3	NGSSS	Distinguish between an experiment (which must involve the identification and control of variables) and other forms of scientific investigation and explain that not all scientific knowledge is derived from experimentation.	6-8	Trees in Trouble	200
Science	SC.7.N.1.4	NGSSS	Identify test variables (independent variables) and outcome variables (dependent variables) in an experiment.	6-8	Trees in Trouble	200
				6-8	Signs of Fall	158
Science	Science SC.7.N.1.6	NGSSS	Explain that empirical evidence is the cumulative body of observations of a natural	Assessment		159
Science <u>Sc.7.11.1.0</u>		phenomenon on which scientific explanations are based.	6-8	Trees in Trouble	200	
			Assessment		201	
			Define a problem from the eighth grade curriculum using appropriate reference materials to support scientific understanding, plan and carry out scientific	6-8	Trees in Trouble	200
Science	SC.8.N.1.1	NGSSS	investigations of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Assessment		201
			Understand that scientific investigations involve the collection of relevant empirical evidence, the use of logical reasoning, and the application of imagination in	6-8	Signs of Fall	158
Science	SC.8.N.1.6	C.8.N.1.6 NGSSS		Assessment	Signs of Fall  Trees in  Trouble	159
Science	<u>5C.6.11.1.0</u>	NOSSS	devising hypotheses, predictions, explanations and models to make sense of the collected evidence.	6-8		200
				Assessment		201
Science	SC.8.P.9.2	NGSSS	Differentiate between physical changes and chemical changes.	6-8	Signs of Fall	159
Science	SC.35.CS-CC.1.1	NGSSS	Identify technology tools for individual and collaborative data collection, writing, communication, and publishing activities.	Part A	Soil Builders	161
Science	SC.68.CS-CC.1.3	NGSSS	Design, develop, and publish a collaborative digital product using a variety of digital tools and media-rich resources that demonstrate and communicate concepts to inform, persuade, and/or entertain.	6-8	Poet-Tree	148

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.K.SL.1.1	FS	Participate in collaborative conversations with diverse partners about <i>kindergarten topics</i> and texts with peers and adults in small and larger groups.  a. Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion).  b. Continue a conversation through multiple exchanges.	K-2	Get Outside!	126
Language Arts	LAFS.K.SL.2.6	FS	Speak audibly and express thoughts, feelings, and ideas clearly.	K-2	Get Outside!	126
Language	LAFS.K12.L.3.5	FS	Demonstrate understanding of word relationships and nuances in word meanings.		Poet-Tree	143
Arts			Zemonomano unocionamonigo i mero remanencia pe uno nuembos in meto menango.	6-8	1 000 1100	148
Language	LAFS.K12.R.1.2	FS	Determine central ideas or themes of a text and analyze their development;		Trees for Many	193
Arts	<u> </u>	15	summarize the key supporting details and ideas.	6-8	Reasons	195
Language Arts	LAFS.K12.R.1.3	FS	Analyze how and why individuals, events, and ideas develop and interact over the course of a text.		Trees for Many Reasons	193
					Fallen Log	116
						136
Language	LAFS.K12.SL.1.1	FS	Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their	6-8	Trees for	139
Arts	Li ii 0.IX12.0L.1.1	1.0	own clearly and persuasively.	Assessment		140
						193
				6-8	Many Reasons	195

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Discover Diversity  Every Drop	97
				Assessment		102
				Part B		104
				Assessment	Counts	108
Language Arts	LAFS.K12.SL.2.4	FS	Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are	Assessment	My Green Future	134
			appropriate to task, purpose, and audience.		Peek at Packaging	136
				Assessment		140
				Part B	Tree Cookies	171
				6-8	Trees for Many Reasons	195
Language Arts	LAFS.K12.SL.2.5	FS	Make strategic use of digital media and visual displays of data to express information and enhance understanding_of presentations.	Part A	Soil Builders	161
Language	LAFS.K12.W.1.1	FS	Write arguments to support claims in an analysis of substantive topics or texts,	Assessment	Soil Builders	167
Arts	<u>LAI 5.K12.W.1.1</u>	13	using valid reasoning and relevant and sufficient evidence.	Assessment	Trees in Trouble	201
					Fallan Log	116
				Assessment	Fallen Log	119
Language Arts	LAFS.K12.W.1.2	FS	Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.		Peek at Packaging	140
				Assessment	Water Wonders	212
					Web of Life	220

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences.		Every Tree for Itself	110
				K-2		113
Language	LAEC W12 W 1 2	AFS.K12.W.1.3 FS		Assessment		114
Arts	LAFS.K12.W.1.5			6-8	Trees in Trouble	200
				Part A	Water Wonders	206
				Assessment		212

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
						110
				K-2	Every Tree for Itself	113
		Asse	Assessment		114	
					Get Outside!	121
				Assessment	Get Outside!	127
				Assessment	Peek at Packaging	140
			6-8	6-8	Poet-Tree	148
Language	LAFS.K12.W.2.4	FS Produce clear and coherent writing in which the development, organization, and		Tree Factory	185	
Arts			style are appropriate to task, purpose, and audience.	Assessment	Tree ID  Trees for Many Reasons	191
						196
				6-8	Trees in	200
				Assessment	Trouble	201
			Part A	Water	206	
			Assessment	Wonders	212	
				Assessment	Web of Life	220
Language Arts	LAFS.K12.W.2.6	FS	Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.	6-8	Poet-Tree	148

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Charting	90
				Plant Adaptations	Biodiversity	92
				Part B	Tree Cookies	171
Language Arts	LAFS.K12.W.3.7	FS	Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.	Part A	Trees in Trouble	197
				Part B		200
				6-8		
					Web of Life	216
Language Arts	LAFS.1.SL.1.1	FS	Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.  a. Follow agreed-upon rules for discussions (e.g., listening to others with care, speaking one at a time about the topics and texts under discussion).  b. Build on others' talk in conversations by responding to the comments of others through multiple exchanges.  c. Ask questions to clear up any confusion about the topics and texts under discussion	K-2	Get Outside!	126
Language Arts	LAFS.1.SL.2.4	FS	Describe people, places, things, and event relevant details, expressing ideas and feelings clearly.	K-2	Get Outside!	126
Language Arts	LAFS.2.SL.1.1	FS	Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.  a. Follow agreed-upon rules for (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).  b. Build on others' talk in conversations by linking their comments to the remarks of others.  c. Ask for clarification and further explanation as needed about the topics and texts under discussion.	K-2	Get Outside!	126

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Use knowledge of language and its conventions when writing, speaking, reading, or	Part A		104
Language Arts	LAFS.3.L.2.3	FS	<ul><li>a. Choose words and phrases for effect.</li><li>b. Recognize and observe differences between the conventions of spoken and</li></ul>	Part B	Every Drop Counts	101
		written standard English.	Assessment		108	
Language Arts	LAFS.3.L.3.5	FS	<ul> <li>Demonstrate understanding of word relationships and nuances in word meanings.</li> <li>a. Distinguish the literal and nonliteral meanings of words and phrases in context (e.g., <i>take steps</i>).</li> <li>b. Identify real-life connections between words and their use (e.g., <i>describe people who are friendly or helpful</i>).</li> <li>c. Distinguish shades of meaning among related words that describe states of mind or degrees of certainty (e.g., <i>knew, believed, suspected, heard, wondered</i>).</li> </ul>		Poet-Tree	143
Language	Language Arts  LAFS.3.SL.1.1  FS	an ot	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 <i>topics and texts</i> , building on others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.		My Green Future	132
Arts		<ul> <li>b. Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).</li> <li>c. Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.</li> <li>d. Explain their own ideas and understanding in light of the discussion.</li> </ul>		Trees for Many Reasons	193	
Language Arts	LAFS.3.SL.1.2	FS	Determine the main ideas and supporting details of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.		Trees for Many Reasons	193

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Fallen Log	116
				Assessment	Tunen Bog	119
			<ul> <li>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</li> <li>a. Introduce a topic and group related information together; include illustrations when useful to aiding comprehension.</li> <li>b. Develop the topic with facts, definitions, and details.</li> <li>c. Use linking words and phrases (e.g., also, another, and, more, but) to connect ideas within categories of information.</li> <li>d. Provide a concluding statement or section.</li> </ul>		My Green Future	134
Language Arts	LACS W L /	LAFS.3.W.1.2 FS		Assessment	Peek at Packaging	136
					Trees in Trouble	201
					Water Wonders	212
					Web of Life	220
Language	2	Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.  a. Establish a situation and introduce a narrator and/or characters; organize an event sequence that unfolds naturally.  b. Use dialogue and descriptions of actions, thoughts, and feelings to develop experiences and events or show the response of characters to situations.  c. Use temporal words and phrases to signal event order.  d. Provide a sense of closure.	Part A	Water	206	
Arts <u>LAFS.3.W.1</u>	LAF3.3.W.1.3		<ul><li>b. Use dialogue and descriptions of actions, thoughts, and feelings to develop experiences and events or show the response of characters to situations.</li><li>c. Use temporal words and phrases to signal event order.</li></ul>	Assessment	Wonders	212

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Plant Adaptations	Charting Biodiversity	90
					Discover Diversity	97
				Part A	Every Drop Counts	104
				Part B		104
					Fallen Log	116
Language			Conduct short research projects that build knowledge about a topic.		Get Outside!	121
Arts					Peek at Packaging	136
				Part A	Soil	161
				Part B	Builders	101
				Part B	Tree Cookies	171
			Part B	Trees in Trouble	197	
				Part B	Water Wonders	206
					Web of Life	216
Language Arts	LAFS.4.L.3.5	FS	Demonstrate understanding of word relationships, and nuances in word meanings.  a. Explain the meaning of simple similes and metaphors (e.g., as pretty as a picture) in context.  b. Recognize and explain the meaning of common idioms, adages, and proverbs.  c. Demonstrate understanding of words by relating them to their opposites (antonyms) and to words with similar but not identical meanings (synonyms)		Poet-Tree	143

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.4.RL.1.1	FS	Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.		Trees for Many Reasons	193
Language Arts	LAFS.4.RL.1.2	FS	Determine a theme of a story, drama, or poem from details in the text; summarize the text.		Trees for Many Reasons	193
			Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.  b. Follow agreed-upon rules for discussions and carry out assigned roles.  c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.  d. Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.		Fallen Log	116
Language Arts	<u>LAFS.4.SL.1.1</u>	.4.SL.1.1 FS			My Green Future	132
					Trees for Many Reasons	193
					Charting Biodiversity	90
				Plant Adaptations		92
				Part A		104
Language			Report on a topic or text, tell a story, or recount an experience in an organized	Part B	Every Drop Counts  Peek at Packaging	104
Arts	LAFS.4.SL.2.4	FS	manner, using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.	Assessment		108
						136
				Assessment		140
				Part B	Tree Cookies	171

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Fallen Log	116
			<ul> <li>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</li> <li>a. Introduce a topic clearly and group related information in paragraphs and sections; include formatting (e.g., headings), illustrations, and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.</li> <li>c. Link ideas within categories of information using words and phrases (e.g., another, for example, also, because).</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Provide a concluding statement or section related to the information or explanation presented.</li> </ul>	Assessment		119
					My Green Future	134
Language Arts	LAFS.4.W.1.2	FS		Assessment	Peek at Packaging	136
					Trees in Trouble	201
					Water Wonders	212
					Web of Life	220
			Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.  a. Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.  b. Use dialogue and description to develop experiences and events or show the responses of characters to situations.  c. Use a variety of transitional words and phrases to manage the sequence of events.  d. Use concrete words and phrases and sensory details to convey experiences and events precisely.  e. Provide a conclusion that follows from the narrated experiences or events.		Every Tree	110
				Assessment	for Itself	114
Language Arts	LAFS.4.W.1.3	V.1.3 FS		Part A	Water Wonders	206
				Assessment		212

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Every Drop	104
				Assessment	Counts	108
			Get Outside!	121		
			Assessment	Set Outside:	127	
T	Proc	Produce clear and coherent writing in which the development and organization are		Peek at Packaging	140	
Language Arts	<u>LAFS.4.W.2.4</u>	FS	appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)	Assessment	Tree ID	191
				Trees for Many Reasons	196	
		Part A	Water	206		
			Assessment	Wonders	212	
			Assessment	Web of Life	220	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Charting	90
					Plant Adaptations	Biodiversity
					Discover Diversity	97
				Part A	Every Drop Counts	104
Language	LAES A W 2.7	FS	Conduct short research projects that build knowledge through investigation of	Part B		104
Arts		different aspects of a topic.	different aspects of a topic.		Fallen Log	116
					Get Outside!	121
				Part B	Tree Cookies	171
				Part B	Trees in Trouble	197
					Web of Life	216
Language Arts	LAFS.4.W.3.9	FS	Draw evidence from literary or informational texts to support analysis, reflection, and research.		Trees for Many Reasons	193
Language Arts	LAFS.5.L.3.5	FS	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings. Interpret figurative Interpret figurative language, including similes and metaphors, in context, etc.		Poet-Tree	143
Language Arts	LAFS.5.RL.1.2	FS	Determine a theme of a story, drama, or poem from details in the text, including how characters in a story or drama respond to challenges or how the speaker in a poem reflects upon a topic; summarize the text.		Trees for Many Reasons	193

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on <i>grade 5 topics and texts</i> , building on others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material;		Fallen Log	116
Language Arts	<u>LAFS.5.SL.1.1</u>	FS	<ul> <li>explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.</li> <li>b. Follow agreed-upon rules for discussions and carry out assigned roles.</li> <li>c. Pose and respond to specific questions by making comments that</li> </ul>		My Green Future	132
			contribute to the discussion and elaborate on the remarks of others.  d. Review the key ideas expressed and draw conclusions in light of information and knowledge gained from the discussions.		Trees for Many Reasons	193
			Report on a topic or text or present an opinion, sequencing ideas logically and using		Charting Biodiversity  Discover Diversity  Every Drop Counts	90
				Plant Adaptations		92
						97
				Assessment		102
Language	LAFS.5.SL.2.4	FS		Part A		104
Arts	<u>LAI'S.J.SL.2.4</u>	ГЗ	appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.	Part B		
				Assessment		108
					Peek at Packaging	136
				Assessment		140
				Part B	Tree Cookies	171

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A	Every Drop Counts	104
Language	LAFS.5.SL.2. <u>5</u>	FS	Include multimedia components (e.g., graphics, sound) and visual displays in presentations when appropriate to enhance the development of main ideas or	Part B		104
Arts	<u>LAFS.3.SL.2.3</u>	гэ	themes.	Assessment		108
				Part A	Soil Builders	161
			<ul> <li>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</li> <li>a. Introduce a topic clearly, provide a general observation and focus, and group related information logically; include formatting (e.g., headings), illustrations, and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.</li> <li>c. Link ideas within and across categories of information using words, phrases, and clauses (e.g., in contrast, especially).</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Provide a concluding statement or section related to the information or explanation presented.</li> </ul>		Fallen Log	116
				Assessment		119
		LAFS.5.W.1.2 FS		Assessment	My Green Future	134
Language Arts	<u>LAFS.5.W.1.2</u>				Peek at Packaging	136
					Trees in Trouble	201
					Water Wonders	212
					Web of Life	220
			Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.		Every Tree	110
			a. Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.	Assessment	for Itself	114
Language Arts  LAF	LAFS.5.W.1.3 FS develop experiences and events or show the situations.	develop experiences and events or show the responses of characters to situations.  c. Use a variety of transitional words, phrases, and clauses to manage the	Part A	Water	206	
		and events precisely.	d. Use concrete words and phrases and sensory details to convey experiences	Assessment	Wonders	212

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Every Tree for Itself	110 114
					Peek at Packaging	140
			Produce clear and coherent writing in which the development and organization are	Assessment	Tree ID	191
Language Arts	<u>LAFS.5.W.2.4</u>	FS	appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)		Trees for Many Reasons	196
			Part A	Water	206	
				Assessment	Wonders	212
				Assessment	Web of Life	220
		AFS.5. W.3.7 FS	Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.		Charting	90
				Plant Adaptations	Biodiversity	92
Language Arts	LAFS.5. W.3.7			Part B	Every Drop Counts	104
				Part B	Tree Cookies	171
					Web of Life	216
Language Arts	LAFS.5.W.3.9	FS	Draw evidence from literary or informational texts to support analysis, reflection, and research.  a. Apply grade 5 Reading standards to literature (e.g., "Compare and contrast two or more characters, settings, or events in a story or a drama, drawing on specific details in the text [e.g., how characters interact]").  b. Apply grade 5 Reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point[s]").		Trees for Many Reasons	193

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.6.L.3.5	FS	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings. Interpret figures of speech (e.g., personification) in context, etc.	6-8	Poet-Tree	148
Language Arts	<u>LAFS.6.RL.1.2</u>	FS	Determine a theme or central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.	Assessment	Trees for Many Reasons	196
Language Arts	<u>LAFS.6.RL.2.4</u>	FS	Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of a specific word choice on meaning and tone.	6-8	Poet-Tree	148
Language Arts	LAFS.6.SL.1.1	FS	<ul> <li>Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 6 topics, texts, and issues, building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under discussion.</li> <li>d. Review the key ideas expressed and demonstrate understanding of multiple perspectives through reflection and paraphrasing.</li> </ul>	6-8	Trees for Many Reasons	195
				6-8	Peek at	139
				Assessment	Packaging	140
Language Arts	<u>LAFS.6.SL.2.4</u>	FS	Present claims and findings, sequencing ideas logically and using pertinent descriptions, facts, and details to accentuate main ideas or themes; use appropriate	6-8	Signs of Fall	158
			eye contact, adequate volume, and clear pronunciation.	Assessment		159
				6-8	Trees for Many Reasons	195

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	LAFS.6.W.1.2	FS	<ul> <li>Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.</li> <li>a. Introduce a topic; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with relevant facts, definitions, concrete details, quotations,</li> </ul>	Assessment	Peek at Packaging	140
Arts	Arts LAFS.0.W.1.2	1.3	or other information and examples.  c. Use appropriate transitions to clarify the relationships among ideas and concepts.  d. Use precise language and domain-specific vocabulary to inform about or explain the topic.  e. Establish and maintain a formal style.  f. Provide a concluding statement or section that follows from the information or explanation presented.	Assessment	Trees in Trouble	201
Language Arts	<u>LAFS.6.W.2.4</u>	FS	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)	Assessment	Peek at Packaging	140
				6-8	Poet-Tree	148
Language Arts	<u>LAFS.68.WHST.1.</u> 2	FS	<ul> <li>Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.</li> <li>a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories as appropriate to achieving purpose; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.</li> <li>c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Establish and maintain a formal style and objective tone.</li> </ul>	Assessment	Trees in Trouble	201
Language Arts	LAFS.7.L.3.5	FS	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings. Interpret figures of speech (e.g., personification) in context, etc.	6-8	Poet-Tree	184

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.7.RL.1.2	FS	Determine a theme or central idea of a text and analyze its development over the course of the text; provide an objective summary of the text.	Assessment	Trees for Many Reasons	196
Language Arts	LAFS.7.RL.2.4	FS	Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of rhymes and other repetitions of sounds (e.g., alliteration) on a specific verse or stanza of a poem or section of a story or drama.	6-8	Poet-Tree	148
Language Arts	LAFS.7.RL.2.5	FS	Analyze how a dramas or poems form or structure (e.g., soliloquy, sonnet) contributes to its meaning.	6-8	Poet-Tree	148
Language Arts	LAFS.7.SL.1.1	FS	<ul> <li>Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 7 topics, texts, and issues, building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed.</li> <li>d. Acknowledge new information expressed by others and, when warranted, modify their own views.</li> </ul>	6-8	Trees for Many Reasons	195
				6-8	Peek at	139
				Assessment	Packaging	140
Language Arts	<u>LAFS.7.SL.2.4</u>	FS	Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate	6-8	Signs of Fall	158
			eye contact, adequate volume, and clear pronunciation.	Assessment		159
				6-8	Trees for Many Reasons	195

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	LAES 7 W 1 2	Write informative/explanatory texts to examine a topic and convey ideas, concepts and information through the selection, organization, and analysis of relevant content.  a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.  b. Develop the topic with relevant facts, definitions, concrete details, quotations	Assessment	Peek at Packaging	140	
Arts		FS	or other information and examples.  Use appropriate transitions to create cohesion and clarify the relationships among ideas and concepts.  Use precise language and domain-specific vocabulary to inform about or explain the topic.  Establish and maintain a formal style.  Provide a concluding statement or section that follows from and supports the information or explanation presented.	Assessment	Trees in Trouble	201
Language	LAFS.7.W.2.4	FS	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations	Assessment	Peek at Packaging	140
Arts	<u> </u>	15	for writing types are defined in standards 1–3 above.)	6-8	Poet-Tree	148
Language Arts	LAFS.8.L.3.5	FS	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings. Interpret figures of speech (e.g., personification) in context, etc.	6-8	Poet-Tree	148
Language Arts	LAFS.8.RL.1.2	FS	Determine a theme or central idea of a text and analyze its development over the course of the text, including its relationship to the characters, setting, and plot; provide an objective summary of the text.	Assessment	Trees for Many Reasons	196
Language Arts	LAFS.8.RL.2.4	FS	Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts.	6-8	Poet-Tree	148

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.8.SL.1.1	FS	<ul> <li>Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>	6-8	Trees for Many Reasons	195
				6-8	Peek at Packaging	139
				Assessment		140
Language Arts	<u>LAFS.8.SL.2.4</u>	FS	Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation.	6-8	Signs of Fall	158
			appropriate eye contact, adequate volume, and clear pronunciation.	Assessment		159
				6-8	Trees for Many Reasons	195

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	LAFS.8.W.1.2	FS	<ul> <li>Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.</li> <li>a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete</li> </ul>	Assessment	Peek at Packaging	140
Arts	LAFS.8.W.1.2 FS	c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.  d. Use precise language and domain-specific vocabulary to inform about or	Assessment	Trees in Trouble	201	
Language	LAFS.8.W.2.4	FS	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations	Assessment	Peek at Packaging	140
Arts			for writing types are defined in standards 1–3 above.)	6-8	Poet-Tree	148
			Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two	Part A		104
			complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it	Part B		104
Mathematics	MAFS.K12.MP.2.1	FS.K12.MP.2.1 FS	symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.		Every Tree for Itself	110
				K-2		113
					Get Outside!	121

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Model with mathematics. Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the	Part A	Every Drop	104
			workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high	Part B	Counts	101
Mathematics	MAFS.K12.MP.4.1	FS	school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-		Every Tree for Itself	110
		way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	K-2		113	
Mathematics	MAFS.2.MD.4.10	FS	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.	K-2	Every Tree for Itself	113
Social Studies	SS.1.A.3.2	NGSSS	Create a timeline based on the student's life or school events, using primary sources.	K-2	Tree Cookies	174
Social Studies	SS.4.C.2.2	NGSSS	Identify ways citizens work together to influence government and help solve community and state problems.	Part B	Every Drop Counts	104
Social Studies	SS.5.C.2.5	NGSSS	Identify ways good citizens go beyond basic civic and political responsibilities to improve government and society.	Part B	Every Drop Counts	104
Social Studies	SS.5.G.1.4	NGSSS	Construct maps, charts, and graphs to display geographic information.		Discover Diversity	97
Social Studies	SS.8.G.5.1	NGSSS	Describe human dependence on the physical environment and natural resources to satisfy basic needs in local environments in the United States.	6-8	Trees for Many Reasons	195

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Discover Diversity	97
				K-2		101
				Assessment		102
				Part A	Every Drop Counts	104
				Part B		104
					Every Tree for Itself	110
			BEST Cite evidence to explain and justify reasoning.	Plant Adaptations		113
				Assessment		114
Language	ELA.K12.EE.1.1	DECT			Fallen Log  My Green	116
Arts	<u>LDA.R12.DE.1.1</u>	DEST		Assessment		119
		Assessme				132
			Assessment	Future	134	
				Part A	Signs of Fall	155
				6-8		158
			As	Assessment		159
			Part B	Soil	161	
			Assessment	Builders	167	
				Part A	Tree Cookies	171

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				6-8	Trees for Many Reasons	195
				Part A	Trees in Trouble	197
Language Arts		1 BEST	Cite evidence to explain and justify reasoning.	6-8		200
71113	(Continued)			Assessment		201
				Part A	Water Wonders	206
				Part B		
				Assessment	Tree Cookies	175
Language Arts		LA.K12.EE.2.1 BEST	Read and comprehend grade-level complex texts proficiently.	6-8	Trees for Many Reasons	195
					Trees in Trouble	200

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
					Every Drop Counts	104	
					Every Tree for Itself	110	
				K-2		113	
				Assessment		114	
					Fallen Log	116	
			EST Make inferences to support comprehension.		Peek at Packaging	136	
		BEST		Part A	Soil Builders	161	
Language Arts	ELA.K12.EE.3.1			Part B		101	
Aits				Assessment		167	
				Part B	Tree	171	
			Assessment	Cookies	175		
				Part A	Tree ID	186	
				Assessment	TICC ID	191	
					Troop for	193	
			6-8	Trees for Many Reasons	195		
			Assessme	Ass	Assessment		196

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Part A		197	
			T Make inferences to support comprehension.	6-8	Water Wonders	200
Language	ELA.K12.EE.3.1 -	DECE		Assessment		201
Arts	continued	BEST		Part A		207
				Part B		206
				Assessment		212

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Discover Diversity	97
				Part B	Every Drop Counts	104
					Get Outside!	121
				K-2	Get Outside:	126
					My Green Future  Peek at Packaging	132
						136
		BEST Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.		6-8		139
Language Arts	ELA.K12.EE.4.1		Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.		Poet-Tree	143
				K-2	Tree Factory	183
			Part A	Trees in	197	
				6-8	Trouble	200
				Part A	Water	206
			Part B	Wonders	200	
				Part A	Soil	161
				Part B	Builders	101

Language Arts	ELA.K12.EE.3.1	BEST	Make inferences to support comprehension.	Language Arts	ELA.K12.E E.3.1	BEST
						143
Language	ELA.K12.EE.5.1	BEST	Use the accepted rules governing a specific format to create quality work.	6-8	Poet-Tree	148
Arts	Arts ELYKNIZ.BE.S.1	DLS1	ese the accepted rules governing a specific format to create quanty work.	Assessment		149
				Assessment	Web of Life	220
Language	ELA.K12.EE.6.1	BEST	Use appropriate voice and tone when speaking or writing.	Assessment	Fallen Log	119
Arts	<u>EDM.R12.DE.0.1</u>	DLS1	ose appropriate voice and tone when speaking of writing.	6-8	Trees in Trouble	200
Language Arts	ELA.K.C.1.2	BEST	Using a combination of drawing, dictating, and/or writing, create narratives with the events in chronological order.	K-2	Tree Cookies	174
Language	ELA.K.C.2.1	BEST	Present information orally using complete sentences.	K-2	Discover	101
Arts	<u>DLA.K.C.2.1</u>	DEST	Tresent information orany using complete sentences.	Assessment	Diversity	102
Language Arts	ELA.K.C.1.4	BEST	Using a combination of drawing, dictating, and/or writing, provide factual information about a topic.	K-2	Tree Cookies	174
Language	ELA.1.C.1.2	BEST	Write narratives that retell two or more appropriately sequenced events, including	K-2	Every Tree	113
Arts	<u>ED/1.1.C.1.2</u>	DLST	relevant details and a sense of closure.	Assessment	for Itself	114
Language	ELA.1.C.2.1	BEST	Present information orally using complete sentences and appropriate volume.	K-2	Discover	101
Arts	<u>EB/1.1.C.B.1</u>	DEST	Tresent information orany using complete sentences and appropriate volume.	Assessment	Diversity	102
Language Arts	ELA.1.C.4.1	BEST	Participate in research to gather information to answer a question about a single topic.	K-2	Discover Diversity	101
				K-2	Every Tree	113
Language Arts	ELA.2.C.1.2	BEST	Write personal or fictional narratives using a logical sequence of events, transitions, and an ending.	Assessment	for Itself	114
				K-2	Tree Cookies	174

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
Language	ELA.2.C.2.1	BEST	Present information orally using complete sentences, appropriate volume, and clear	K-2	Discover	101	
Arts	ELA.2.C.2.1	DEST	pronunciation.	Assessment	Diversity	102	
Language Arts	ELA.2.C.5.1	BEST	Use one or more multimedia element(s) to enhance oral or written tasks.	K-2	Tree Cookies	174	
						Get Outside!	127
	Language Arts  ELA.3.C.1.2  BEST  Write personal or fictional narratives using a logical sequence of events, appropriate descriptions, dialogue, a variety of transitional words or phrases, and an ending.		Assessment	Tree Cookies	175		
		A.3.C.1.2 BEST ap	appropriate descriptions, dialogue, a variety of transitional words or phrases, and an		Tree Factory	185	
				Part A	Water Wonders	206	
				Assessment		212	
				Part B	Every Drop Counts	104	
Language Arts	ELA.3.C.1.3	BEST	Write opinions about a topic or text, include reasons supported by details from one or more sources, use transitions, and provide a conclusion.		Trees for	193	
				Assessment	Many Reasons	196	
				Part B	Every Drop	104	
Language Arts	ELA.3.C.1.4	BEST	Write expository texts about a topic, using one or more sources, providing an introduction, facts and details, some elaboration, transitions, and a conclusion.	Assessment	Counts	108	
				Assessment	Web of Life	220	
Language Arts	ELA.3.C.1.5	BEST	Improve writing as needed by planning, revising, and editing with guidance and support from adults and feedback from peers.	Assessment	Poet-Tree	149	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Charting Biodiversity	90
						97
				K-2	Every Drop Counts  My Green Future	101
				Assessment		102
				Part B		104
				Assessment		108
Language Arts	ELA.3.C.2.1	BEST	Present information orally, in a logical sequence, using nonverbal cues, appropriate volume, and clear pronunciation.			132
				Assessment		134
					Peek at Packaging	136
				Assessment		140
				Part B	Tree Cookies	171
				Part A	Water	206
			Assessment	Wonders	212	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Charting	90
				Plant Adaptions	Biodiversity	92
Language Arts	ELA.3.C.4.1	BEST	Conduct research to answer a question, organizing information about the topic from multiple sources.	Part B	Every Drop Counts	104
				Part B	Tree Cookies	171
					Web of Life	216
Language	FI A 2 F 1 4	DEGT	Read grade-level texts with accuracy, automaticity, and appropriate prosody or		Poet-Tree	143
Arts	ELA.3.F.1.4	BEST	expression.	Assessment	Tree Cookies	175
Language	ELA.3.R.1.4	BEST			Poet-Tree	143
Arts	<u>EDA.J.R.1.4</u>	DEST	Identify types of poems: free verse, rhymed verse, haiku, and limerick.	Assessment	1 oct-11cc	148
					Poet-Tree	143
Language Arts	ELA.3.R.2.2	BEST	Identify the central idea and explain how relevant details support that idea in a text.		Trees for	193
				Assessment	Many Reasons	196
Language Arts	ELA.3.R.3.2	BEST	Summarize a text to enhance comprehension  a. Include plot and theme for a literary text.  b. Use the central idea and relevant details for an informational text.	Assessment	Trees for Many Reasons	196

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Discover	97
				Assessment	Diversity	102
					Every Tree for Itself	114
				Assessment	Fallen Log	119
Language Arts	ELA.3.V.1.1	BEST	Use grade-level academic vocabulary appropriately in speaking and writing.		Get Outside!	127
				Part A	Tree Cookies	171
				Assessment	Tree ID	191
				Part A	Water	206
				Assessment	Wonders	212
					Get Outside!	127
			Write personal or fictional narratives using a logical sequence of events and	Assessment	Tree Cookies	175
Language Arts	ELA.4.C.1.2	BEST	demonstrating an effective use of techniques such as descriptions and transitional words and phrases.		Tree Factory	185
			words and pinases.	Part A	Water Wonders	206
				Assessment		212
Language	ELA.4.C.1.3	BEST	Write to make a claim supporting a perspective with logical reasons, using evidence	Aggagament	Every Drop Counts	108
Arts	ELA.4.C.1.3	BEST	from multiple sources, elaboration, and an organizational structure with transitions.	Assessment	Trees in Trouble	201
Language Arts	ELA.4.C.1.4	BEST	Write expository texts about a topic, using multiple sources, elaboration, and an organizational structure with transitions.	Assessment	Web of Life	220

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	ELA.4.C.1.5	BEST	Improve writing by planning, revising, and editing, with guidance and support from adults and feedback from peers.	Assessment	Poet-Tree	149
					Charting Biodiversity	90
					Discover	97
				Assessment	Diversity	102
			Part B	Every Drop	104	
				Assessment	Counts	108
Language	ELA.4.C.2.1	BEST	Present information orally, in a logical sequence, using nonverbal cues, appropriate		My Green	132
Arts	22111101211	BEST	volume, and clear pronunciation.	Assessment	Future	134
				Peek at	136	
				Assessment	Packaging	140
				Part A	Soil	161
				Part B	Builders	101
				Part B	Tree Cookies	171
		ELA.4.C.4.1  BEST Conduct research to answer a question, organizing information about the topi using multiple valid sources.		Part B	Every Drop Counts	104
Language Arts				Part B	Tree Cookies	171
				Web of Life	216	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Fallen Log	119
					My Green	132
				Assessment	Future	134
Language	ELA.4.C.5.1	BEST	Arrange multimedia elements to create emphasis in oral or written tasks.		Peek at Packaging	136
Arts	ELA.T.C.J.1	DE31	Arrange multimedia elements to create emphasis in orai of written tasks.	Part B	Tree Cookies	171
					Tree Factory	185
				Assessment	Tree ID	191
					Web of Life	220
Language	EV A 4 E 1 4	DECE	Read grade-level texts with accuracy, automaticity, and appropriate prosody or		Poet-Tree	143
Arts	ELA.4.F.1.4	BEST	expression.	Assessment	Tree Cookies	175
Language Arts	ELA.4.R.1.4	BEST	Explain how rhyme and structure create meaning in a poem.		Poet-Tree	143
					Poet-Tree	143
Language Arts	Language Arts  ELA.4.R.2.2	BEST	Explain how relevant details support the central idea, implied or explicit.		Trees for Many Reasons	193
Language Arts	ELA.4.R.3.1	BEST	Explain how figurative language contributes to meaning in text(s).		Poet-Tree	143
Language Arts	ELA.4.R.3.2	BEST	Summarize a text to enhance comprehension.  a. Include plot and theme for a literary text.  b. Include the central idea and relevant details for an informational text.	Assessment	Trees for Many Reasons	196

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Discover Diversity	97
				Assessment		102
					Every Tree for Itself	114
				Assessment	Fallen Log	119
Language Arts	ELA.4.V.1.1	BEST	Use grade-level academic vocabulary appropriately in speaking and writing.		Get Outside!	127
				Part A	Tree Cookies	171
				Assessment	Tree ID	191
				Part A	Water	206
				Assessment	Wonders	212
					Get Outside	127
				Assessment	Tree Cookies	175
Language Arts	ELA.5.C.1.2	BEST	Write personal or fictional narratives using a logical sequence of events and demonstrating an effective use of techniques such as dialogue, description, and transitional words and phrases.		Tree Factory	185
			transitional words and phrases.	Part A	Water	206
				Assessment	Wonders	212
			Write expository texts about a topic using multiple sources and including an organizational structure, relevant elaboration, and varied transitions.	Part B	Every Drop Counts	104
Language Arts	ELA.5.C.1.4	.4 BEST		Assessment		108
				Assessment	Web of Life	220

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
Language Arts	ELA.5.C.1.5	BEST	Improve writing by planning, revising, and editing, with guidance and support from adults and feedback from peers.	Assessment	Poet-Tree	149	
					Charting Biodiversity	90	
					Discover	97	
				Assessment	Diversity	102	
				Part B	Every Drop	104	
				Assessment	Counts	108	
Language	ELA.5.C.2.1	BEST	Present information orally, in a logical sequence, using nonverbal cues, appropriate		My Green Future  Peek at Packaging  Soil Builders	132	
Arts	22/10/012/1	volume, clear pronunciation, and appropriate.	volume, clear pronunciation, and appropriate.	Assessment		134	
						136	
				Assessment		140	
				Part A		161	
				Part B		101	
				Part B	Tree Cookies	171	
						Charting Biodiversity	90
Language			Conduct research to answer a question, organizing information about the topic and	Part B	Every Drop Counts	104	
Arts	ELA.5.C.4.1	A.5.C.4.1 BEST using multiple reliable and valid sources.		and valid sources.	Tree Cookies	171	
				Web of Life	216		

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Fallen Log	119
					My Green	132
				Assessment	Future	134
Language	ELA.5.C.5.1	BEST	Arrange multimedia elements to create emphasis in oral or written tasks.		Peek at Packaging	136
Arts	<u>EBA.3.C.3.1</u>	DES 1	Arrange multimedia elements to create emphasis in oral of written tasks.	Part B	Tree Cookies	171
					Tree Factory	185
			Assessment	Tree ID	191	
					Web of Life	220
Language	ELA.5.F.1.4	BEST	Read grade-level texts with accuracy, automaticity, and appropriate prosody or		Poet-Tree	143
Arts	ELA.J.F.1.4	DEST	expression.	Assessment	Tree Cookies	175
Language Arts	ELA.5.R.2.3	BEST	Analyze an authors purpose and/or perspective in an informational text.		Trees for Many Reasons	193
Language Arts	ELA.5.R.1.4	BEST	Explain how figurative language and other poetic elements work together in a poem.		Poet-Tree	143
Language Arts	ELA.5.R.2.1	BEST	Explain how text structures and/or features contribute to the overall meaning of texts.		Poet-Tree	143
					Poet-Tree	143
Language Arts		BEST	Explain how relevant details support the central idea(s), implied or explicit.		Trees for Many Reasons	193
Language	ELA.5.R.2.4	BEST	Track the development of an argument, identifying the specific claim(s), evidence,	Part A	A Signs of Fall	155
Arts	LLA.J.N.Z.+	DEST	and reasoning.	Assessment	Signs of Fall	159

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	ELA.5.R.3.1	BEST	Analyze how figurative language contributes to meaning in text(s).		Poet-Tree	143
Language Arts	ELA.5.R.3.2	BEST	Summarize a text to enhance comprehension.  a. Include plot and theme for a literary text.  b. Include the central idea and relevant details for an informational text.	Assessment	Trees for Many Reasons	196
					Discover	97
				Assessment	Diversity	102
				Every Tree for Itself	114	
		Assessment	Fallen Log	119		
Language Arts	ELA.5.V.1.1	BEST	Use grade-level academic vocabulary appropriately in speaking and writing.		Get Outside!	127
				Part B	Tree Cookies	171
				Assessment	Tree ID	191
				Part A	Water Wonders	206
				Assessment		212
Language Arts	ELA.612.F.2.4	BEST	Read grade-level texts with accuracy, automaticity, and appropriate prosody or expression.	6-8	Trees in Trouble	200
Language Arts	ELA.6.C.1.2	BEST	Write personal or fictional narratives using narrative techniques, precise words and phrases, and figurative language.	6-8	Trees in Trouble	200
Language Arts	ELA.6.C.1.3	BEST	Write and support a claim using logical reasoning, relevant evidence from sources, elaboration, and a logical organizational structure with varied transitions.	6-8	Trees for Many Reasons	195
Language Arts	ELA.6.C.1.5	BEST	Improve writing by planning, revising, and editing, considering feedback from adults and peers.	Assessment	Poet-Tree	149
Language Arts	ELA.6.C.2.1	BEST	Present information orally, in a logical sequence, using nonverbal cues, appropriate volume, clear pronunciation, and appropriate pacing.	Assessment	Peek at Packaging	140

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
Language Arts	ELA.6.R.3.4	BEST	Identify rhetorical appeals in a text.	6-8	Trees in Trouble	200	
Language Arts	ELA.7.C.1.2	BEST	Write personal or fictional narratives using narrative techniques, a recognizable point of view, precise words and phrases, and figurative language.	6-8	Trees in Trouble	200	
Language Arts	ELA.7.C.1.3	BEST	Write and support a claim using logical reasoning, relevant evidence from sources, elaboration, a logical organizational structure with varied transitions, and acknowledging at least one counterclaim.	6-8	Trees for Many Reasons	195	
Language Arts	ELA.7.C.1.5	BEST	Improve writing by planning, revising, and editing, considering feedback from adults and peers.	Assessment	Poet-Tree	149	
Language	ELA.7.C.2.1	BEST	Present information orally, in a logical sequence, emphasizing key points that	Assessment	Peek at Packaging	140	
Arts	<u>LLA.7.C.2.1</u>	DEST SI	support the central idea.	apport the central idea.	Assessment	Signs of Fall	159
Language Arts	ELA.8.C.1.2	BEST	Write personal or fictional narratives using narrative techniques, varied transitions, and a clearly established point of view.	6-8	Trees in Trouble	200	
Language Arts	ELA.8.C.1.3	BEST	Write to argue a position, supporting at least one claim and rebutting at least one counterclaim with logical reasoning, credible evidence from sources, elaboration, and using a logical organizational structure.	6-8	Trees for Many Reasons	195	
Language Arts	ELA.8.C.1.5	BEST	Improve writing by planning, editing, considering feedback from adults and peers, and revising for clarity and cohesiveness.	Assessment	Poet-Tree	149	
Language	ELA.8.C.2.1	BEST	Present information orally, in a logical sequence, supporting the central idea with	Assessment	Peek at Packaging	140	
Arts	ELA.6.C.2.1	DEST	credible evidence.	Assessment	Signs of Fall	159	
			Complete tasks with mathematical fluency.  Mathematicians who complete tasks with mathematical fluency:	Part A	Every Drop Counts	104	
Mathematics	MA.K12.MTR.3.1 BEST	<ul> <li>Select efficient and appropriate methods for solving problems within the given context.</li> <li>Maintain flexibility and accuracy while performing procedures and mental calculations.</li> <li>Complete tasks accurately and with confidence.</li> <li>Adapt procedures to apply them to a new context.</li> <li>Use feedback to improve efficiency when performing calculations.</li> </ul>			Get Outside!	121	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Engage in discussions that reflect on the mathematical thinking of self and others.  Mathematicians who engage in discussions that reflect on the mathematical		Every Drop Counts	104
Mathematics	MA.K12.MTR.4.1	BEST	<ul> <li>thinking of self and others:</li> <li>Communicate mathematical ideas, vocabulary and methods effectively.</li> <li>Analyze the mathematical thinking of others.</li> </ul>		Every Tree for Itself	110
Wathematics	WAXIZ.WIR.4.1	BLST	<ul> <li>Compare the efficiency of a method to those expressed by others.</li> <li>Recognize errors and suggest how to correctly solve the task.</li> <li>Justify results by explaining methods and processes.</li> <li>Construct possible arguments based on evidence.</li> </ul>		Get Outside!	121
				Discover Diversity	97	
		Apply mathematics to real-world contexts.  Mathematicians who apply mathematics to real-world contexts:  Connect mathematical concepts to everyday experiences.  Use models and methods to understand, represent and solve problems.  Perform investigations to gather data or determine if a method is appropriate.  Redesign models and methods to improve accuracy or efficiency.		Every Drop Counts	104	
				K-2	Every Tree	113
Mathematics	MA.K12.MTR.7.1		<ul> <li>Connect mathematical concepts to everyday experiences.</li> <li>Use models and methods to understand, represent and solve problems.</li> <li>Perform investigations to gather data or determine if a method is appropriate.</li> </ul>	Assessment	for Itself	114
Wathematics					Get Outside!	121
				Part A	Soil Builders	161
				K-2	Tree Cookies	174
					Every Tree for Itself	174
Mathematics	MA.1.NSO.1.1	BEST	Starting at a given number, count forward and backwards within 120 by ones. Skip count by 2s to 20 and by 5s to 100.	K-2	Tree Cookies	174
Mathematics	MA.2.DP.1.1	BEST	Collect, categorize and represent data using tally marks, tables, pictographs or bar graphs. Use appropriate titles, labels and units.	K-2	Every Tree for Itself	113
Mathematics	MA.2.DP.1.2	BEST	Interpret data represented with tally marks, tables, pictographs or bar graphs including solving addition and subtraction problems.	K-2	Every Tree for Itself	113
Mathemetics	MA.3.DP.1.1	BEST	Collect and represent numerical and categorical data with whole-number values using tables, scaled pictographs, scaled bar graphs or line plots. Use appropriate	K-2	Every Tree for Itself	113
Mauremettes	11111.0.01 .1.1	DLGI	titles, labels and units.	Part A	Soil Builders	161

Subject	Standard	Standard Type	Description	Variation/ Assessmen t	Activity	Page Number	
Mathematics	MA.3.M.1.2	BEST	Solve real-world problems involving any of the four operations with whole-number lengths, masses, weights, temperatures or liquid volumes.		Every Drop Counts	104	
Mathematics	MA.3.M.2.2	BEST	Solve one- and two-step real-world problems involving elapsed time.	Part A	Every Drop Counts	104	
Mathematics	MA.4.NSO.2.2	BEST	Multiply two whole numbers, up to three digits by up to two digits, with procedural reliability.		Get Outside!	121	
Mathematics	MA.4.DP.1.1	BEST	Collect and represent numerical data, including fractional values, using tables, stem-and-leaf plots or line plots.	Part A	Soil Builders	161	
				Part A Ever	Every Drop	104	
Mathematics	MA.4.DP.1.3	MA.4.DP.1.3 BEST	BEST	Solve real-world problems involving numerical data.	Part B	Counts	104
					Every Tree for Itself	110	
Mathematics	MA.4.M.1.1	BEST	Select and use appropriate tools to measure attributes of objects.	Part A	Soil Builders	161	
Mathematics	MA.4.NSO.2.2	BEST	Multiply two whole numbers, up to three digits by up to two digits, with procedural reliability.		Get Outside!	121	
Mathematics	MA.5.AR.1.1	BEST	Solve multi-step real-world problems involving any combination of the four operations with whole numbers, including problems in which remainders must be interpreted within the context.	Part A	Every Drop Counts	104	
Mathematics	MA.5.AR.2.4	BEST	Given a mathematical or real-world context, write an equation involving any of the four operations to determine the unknown whole number with the unknown in any position.	Part A	Every Drop Counts	104	
Mathematics	MA.5.DP.1.1	BEST	Collect and represent numerical data, including fractional and decimal values, using tables, line graphs or line plots.	Part A	Soil Builders	161	

## Grades 6 – 8

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Science	SC.3.N.1.1	NGSSS	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	3-5	Field, Forest, and Stream	261
Science	SC.3.N.1.2	NGSSS	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	3-5	Field, Forest, and Stream	261
					Improve Your Place	295
			Keep records as appropriate, such as pictorial, written, or simple charts and graphs,	3-5	Nature's Skyscrapers	329
Science	nce SC.3.N.1.3 NGSSS	NGSSS	of investigations conducted.		Nothing Succeeds Like Succession	338
					Plant a Tree	353
Science	SC.3.N.1.6	NGSSS	Infer based on observation.	3-5	Field, Forest,	261
Science	<u>5C.5.11.1.0</u>	NOSSS	inici based on observation.	Assessment	and Stream	262
Science	SC.3.N.3.2	NGSSS	Recognize that scientists use models to help understand and explain how things work.	3-5	Life on the Edge	311
Science	SC.35.CS-CC.1.1	NGSSS	Identify technology tools for individual and collaborative data collection, writing, communication, and publishing activities.	Assessment	Field, Forest, and Stream	262
Science	SC.35.CS-CS.1.1	NGSSS	Identify the concepts illustrated by a simulation (e.g., ecosystem, predator/prey, and invasive species).	3-5	Life on the Edge	311
Science	SC.35.CS-CS.2.3	NGSSS	Explain the process of arranging or sorting information into useful order as well as the purpose for doing so.	3-5	Improve Your Place	295
Science	SC 35 CS-CS 3 2	125 CC CC 22 NCCCC	Create an artifact (independently and collaboratively) that answers a research	3-5	Exploration Energy!	252
Belefie		question clearly communicating thoughts and ideas.	Assessment	Plant a Tree	354	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
					Exploration Energy!	252	
Science	SC.4.E.6.3	NGSSS	Recognize that humans need resources found on Earth and that these are either renewable or nonrenewable.	3-5	Our Federal Forests	346	
					Plant a Tree	353	
Science	SC.4.L.17.4	NGSSS	Recognize ways plants and animals, including humans, can impact the	3-5	Decisions, Decisions	227	
Science		NOSSS	environment.	3-3	Improve Your Place	295	
Science	SC.4.N.1.1	NGSSS	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	3-5	Exploration Energy!	252	
Science	SC.4.N.1.2	NGSSS	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	3-5	Nature's Skyscrapers	329	
Science	SC.4.N.1.5	NGSSS	Compare the methods and results of investigations done by other classmates.	3-5	Field, Forest, and Stream	261	
Science	SC.5.E.7.5	NGSSS	Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains.	3-5	Field, Forest, and Stream	261	
	CO 5 I 15 1		Descr	Describe how, when the environment changes, differences between individuals		Life on the Edge	311
Science	SC.5.L.15.1	NGSSS	allow some plants and animals to survive and reproduce while others die or move to new locations.	3-5	Nothing Succeeds Like Succession	338	
Science	SC.5.N.1.6	NGSSS	Recognize and explain the difference between personal opinion/interpretation and	3-5	Field, Forest,	261	
Belefice	50.5.11.1.0	110000	verified observation.	Assessment and S	and Stream	262	
Science	SC.6.E.6.2	NGSSS	Recognize that there are a variety of different landforms on Earth's surface such as coastlines, dunes, rivers, mountains, glaciers, deltas, and lakes and relate these landforms as they apply to Florida.		Field, Forest, and Stream	257	
Science	SC.6.E.7.6	NGSSS	Differentiate between weather and climate.	Part B	The Global Climate	375	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
				Part B	Environmental Justice for All	233	
			Define a problem from the sixth grade curriculum, use appropriate reference		If You Were the Boss Our Federal Forests	280	
Science	SC.6.N.1.1	NGSSS	materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and	Assessment		284	
			graphics, analyze information, make predictions, and defend conclusions.	Part A		342	
				Part B			
				Part B	Exploration Energy!	247	
Science	SC.6.N.1.4	NGSSS	Discuss, compare, and negotiate methods used, results obtained, and explanations among groups of students conducting the same investigation.		Field, Forest, and Stream	257	
Science	<u>50.0.11.1.4</u>	NOSSS			Forest in the City	265	
				Part B	Our Federal Forests	342	
Science	SC.6.N.1.5	NGSSS	Recognize that science involves creativity, not just in designing experiments, but		Field, Forest,	257	
Science	<u>50.0.11.1.5</u>	110333	also in creating explanations that fit evidence.	also in creating explanations that fit evidence.	Assessment	and Steam	262

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
				Part A	Global Goods	272	
				Part B			
					If You Were the Boss	280	
				Part A	Life on the Edge	308	
Science	Science SC.6.N.3.4 NO	NGSSS	Identify the role of models in the context of the sixth grade science benchmarks.	Part A	Nothing Succeeds Like	315	
				Assessment		320	
				Part B		334	
				Assessment		339	
				Part B	Renewable or Not?	364	
				Assessment (Part B)	Exploration Energy!	254	
Science	SC.68.CS-CC.1.3	NGSSS	Design, develop, and publish a collaborative digital product using a variety of digital tools and media-rich resources that demonstrate and communicate concepts to inform, persuade, and/or entertain.	Assessment	Field, Forest, and Stream	262	
			to inform, persuade, and/of entertain.	Part B	Reduce, Reuse, Recycle	356	
Science	SC.68.CS-CS.1.2	NGSSS	Create or modify and use a simulation to analyze and illustrate a concept in depth (i.e., use a simulation to illustrate a genetic variation), individually and collaboratively.	Part B	Renewable or Not?	364	
Science	SC.68.CS-CS.1.3	NGSSS	Evaluate what kinds of real-world problems can be solved using modeling and		If You Were the Boss	280	
Science	<u>5C.00.C5-C5.1.5</u>	GGGDEI		NGSSS simulation.	Part B	Renewable or Not?	364

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					If You Were the Boss	280
				Part A	Life on the Edge	308
Science	SC.68.CS-CS.1.4	NGSSS	Interact with content-specific models and simulations to support learning, research and problem solving (e.g., immigration, international trade, invasive species).	Part A	Living with Fire	315
				Part B	Erving waar ne	313
				Part B	Renewable or Not?	364
Science	SC.68.CS-CS.2.2	NGSSS	Solve real-life issues in science and engineering (i.e., generalize a solution to openended problems) using computational thinking skills.		If You Were the Boss	280
		SC.68.CS-CS.2.4 NGSSS	Organize and display information in a variety of ways such as number formats	(Including Optional Step 9)	If You Were the Boss	280
					Improve Your Place	293
				Part B	Our Federal Forests	342
Science	SC.68.CS-CS.2.4			Assessment		347
			(e.g., scientific notation, percentages, and exponents), charts, tables and graphs.	Part A	Reduce, Reuse, Recycle	356
				Assessment	Renewable or Not?	371
				Part A	The Global	375
				Assessment	Climate	380
Science	SC.68.CS-CS.2.6	NGSSS	Create a program that implements an algorithm to achieve a given goal, individually and collaboratively.	Part B	Renewable or Not?	364
Science	SC.68.CS-CS.2.9	NGSSS	Identify simple data types and data structures.	Part A	The Global Climate	375

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part B	Environmental Justice for All	233
				T att D	Global Goods	272
Science	SC.68.CS-PC.3.1	NGSSS	Answer research questions using digital information resources.		Invasive Species	299
				Part A	Our Federal	342
				Part B	Forests	J
					Decisions, Decisions	224
Science	SC.68.CS-CP.3.3	-CP.3.3 NGSSS	Create an artifact (independently and collaboratively) that answers a research question and communicates results and conclusions.	Assessment (Part B)	Exploration Energy!	254
Science	<u>50.00.05 C1.5.5</u>				Invasive Species	299
				Part B	Life on the Edge	308
					Decisions, Decisions	224
					Environmental Justice for All	233
					Invasive Species	299
			Identify the impact that humans have had on Earth, such as deforestation,	Part A	Life on the Edge	308
Science	SC.7.E.6.6	NGSSS	urbanization, desertification, erosion, air and water quality, changing the flow of water.	Part B		300
				Part A	Reduce, Reuse, Recycle	356
				Part B	Renewable or Not?	364
				Part A	The Global	375
					Climate	313

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Science	SC.7.L.15.2	NGSSS	Explore the scientific theory of evolution by recognizing and explaining ways in which genetic variation and environmental factors contribute to evolution by natural selection and diversity of organisms.	Part A	Life on the Edge	308
			Explore the scientific theory of evolution by relating how the inability of a species to adapt within a changing environment may contribute to the extinction of that	Part A	Life on the Edge	308
Science	SC.7.L.15.3	NGSSS		Part A	Nothing	224
			species.	Part C	Succeeds Like Succession	334
Science	SC.7.L.17.2	NGSSS	Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.		Invasive Species	299
					Field, Forest, and Stream	257
					If You Were the Boss	280
			Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.		Invasive Species	299
g.:	0071 172			Part B	Living with Fire	315
Science	<u>SC.7.L.17.5</u>			Part B	Nothing Succeeds Like Succession  Our Federal Forests	334
				Part C		334
				Part A		342
				Part B		342
				Part B	Environmental Justice for All	233
			Define a problem from the seventh grade curriculum, use appropriate reference		If You Were the	280
Science	Science SC.7.N.1.1	SC.7.N.1.1 NGSSS	materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Assessment	Boss	284
				Part A	Our Federal	342
				Part B	Forests	J+2

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number		
				Part B		334		
Science	Science SC.7.N.1.6	NGSSS	Explain that empirical evidence is the cumulative body of observations of a natural phenomenon on which scientific explanations are based.	Part C	Nothing Succeeds Like Succession	334		
				Assessment		339		
				Part A	Global Goods	272		
			Identify the benefits and limitations of the use of scientific models.	Part B	Global Goods	2,2		
					If You Were the Boss	280		
Science	Science SC.7.N.3.2	SC.7.N.3.2 NGSSS			Life on the Edge	308		
				Part B	Living with Fire	315		
				Assessment		320		
				Part B	Renewable or Not?	364		
Science	SC.7.P.11.2	NGSSS	Investigate and describe the transformation of energy from one form to another.	Part A	Exploration Energy!	247		
Science	SC.7.P.11.3	NGSSS	Cite evidence to explain that energy cannot be created nor destroyed, only changed from one form to another.	Part A	Exploration Energy!	247		
				Part B	Environmental Justice for All	233		
			Define a problem from the eighth grade curriculum using appropriate reference		If You Were the	280		
Science	SC.8.N.1.1	NGSSS	materials to support scientific understanding, plan and carry out scientific investigations of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in cheets, tables, and	Assessment	Boss	284		
		graphics, analyze information, make predictions, and defend conclusions.	identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Part A	Our Federal	0.15		
							Part B	Forests

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
Science	SC.8.N.1.3	NGSSS	Use phrases such as "results support" or "fail to support" in science, understanding that science does not offer conclusive 'proof' of a knowledge claim.		Forest in the City	265	
Sajanga	Science SC.8.N.1.4 NGSSS	NGSSS	Explain how hypotheses are valuable if they lead to further investigations, even if they turn out not to be supported by the data.	Explain how hypotheses are valuable if they lead to further investigations, even if		If You Were the Boss	280
Science		NUSSS		Assessment (Part B)	Our Federal Forests	347	
			Understand that scientific investigations involve the collection of relevant empirical evidence, the use of logical reasoning, and the application of imagination in devising hypotheses, predictions, explanations and models to make sense of the collected evidence		Field, Forest, and Stream	257	
Science	SC.8.N.1.6	8.N.1.6 NGSSS		Part B	Nothing Succeeds Like Succession	334	
Science	<u>BC.0.11.11.0</u>			Part C		331	
				Assessment		339	
					Forest in the City	265	
				Part B	Global Goods	272	
Science	SC.8.N.3.1	NGSSS	Select models useful in relating the results of their own investigations.		If You Were the Boss	280	
				Part B	Renewable or	364	
				Assessment	Not?	371	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
					If You Were the Boss	280
				Part A	Life on the	308
			Explain that science is one of the processes that can be used to inform decision making at the community, state, national, and international levels.	Part B	Edge	308
				Part B	Living with	315
Science	SC.8.N.4.1	NGSSS		Assessment	Fire	320
				Part A	Our Federal Forests	342
				Part B		342
					Plant a Tree	350
				Part A	The Global Climate	375
				Part B		313
				Assessment		380
					Decisions, Decisions	224
Science	SC.8.N.4.2	NGSSS	Explain how political, social, and economic concerns can affect science, and vice versa.		If You Were the Boss	280
				Part B	Life on the Edge	308
Language	LAFS.K12.R.1.1	FS	Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to	Part A	Environmental Justice for All	233
Arts	Arts EATS.RT2.R.T.1		support conclusions drawn from the text.		Jusuce for All	238

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.K12.R.1.2	FS	Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.	3-5	Nothing Succeeds Like Succession	338
Language	LAFS.K12.R.3.8	FS	Delineate and evaluate the argument and specific claims in a text, including the	Assessment	Decisions, Decisions	228
Arts	<u>LAPS.R12.R.3.0</u>	гъ	validity of the reasoning as well as the relevance and sufficiency of the evidence.	Part B	The Global Climate	375
				3-5	Decisions, Decisions	227
				Part A	Environmental Justice for All	233
				Part B		233
		AFS.K12.SL.1.1 FS collaborations with diver	Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.		Field, Forest, and Stream	257
				3-5	Field, Forest and Stream	261
Language				Part A	Global Goods	272
Arts	LAFS.K12.SL.1.1			Part B		212
				Part B	Our Federal Forests	342
				Part A	Reduce, Reuse, Recycle	356
				Part B	The Global Climate	375
				Part A	What's in a Label?	382
				Part B		302

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Evaluate a speakers point of view, reasoning, and use of evidence and rhetoric.		Decisions, Decisions	224
Language Arts	LAFS.K12.SL.1.3	FS		3-5		227
				Assessment		228
				Part A	Environmental	233
			Present information, findings, and supporting evidence such that listeners can	Part B	Justice for All	233
				Part A	Exploration Energy!  Field, Forest, and Stream	247
				3-5		252
						257
Language	LAFS.K12.SL.2.4			3-5		261
Arts	LAFS.R12.SL.2.4	FS	follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.	Assessment		262
				Part B	Global Goods	272
					Invasive	299
				Assessment	Species	303
				Dout D	Life on the Edge	308
				Part B	Renewable or Not?	364

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment (Part B)	Exploration Energy!	254
				Assessment	Global Goods	277
					Improve Your	293
				Assessment	Place	296
					Invasive Species	299
Language Arts	Language Arts  LAFS.K12.SL.2.5		Make strategic use of digital media and visual displays of data to express information and enhance understanding_of presentations.	Part B	Life on the Edge	308
				3-5	Nothing Succeeds Like Succession	338
				Part B	Our Federal Forests	342
				Assessment		347
				Part B	The Global Climate	375
				Assessment	Environmental Justice for All	238
Language	LAFS.K12.W.1.1	FS	Write arguments to support claims in an analysis of substantive topics or texts,	Assessment (Part B)	Our Federal Forests	347
Arts	LAFS.K12.W.1.1	гэ	using valid reasoning and relevant and sufficient evidence.	Assassment	Renewable or Not?	371
				Assessment	The Global Climate	380

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A	Exploration Energy!	247
				Assessment	Improve Your Place	293
			Write informative/explanatory texts to examine and convey complex ideas and		Invasive Species	303
Language Arts	<u>LAFS.K12.W.1.2</u>	FS	information clearly and accurately through the effective selection, organization, and analysis of content.	Assessment (Part A)	Life on the Edge	308
					Nothing Succeeds Like Succession	339
				Assessment	Plant a Tree	354
					Reduce, Reuse, Recycle	362
				Assessment	Forest in the City	268
					Global Goods	277
					Improve Your Place	293
				Part B	Life on the Edge	308
Language Arts	LAFS.K12.W.2.4	FS	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Assessment (Part A)		312
Aits			style are appropriate to task, purpose, and addience.	Assessment	Nature's Skyscrapers	330
					Nothing Succeeds Like Succession	339
					Renewable or Not?	371
					What's in a Label?	387
Language Arts	LAFS.K12.W.2.5	FS	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.		Improve Your Place	293

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.K12.W.2.6	FS	Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.	Part B	Life on the Edge	308
				Part B	Environmental Justice for All	233
				Part A	Exploration	247
				3-5	Energy!	252
					Forest in the City	265
				Part B	Global Goods	272
			questions, demonstrating understanding of the subject under investigation.  F		Invasive Species	299
Language Arts	LAFS.K12.W.3.7			Part B	Life on the Edge	308
				Part A	Living with Fire	315
				Part B		313
				Part A	Our Federal	342
		Part B	Part B	Forests	342	
					Plant a Tree	350
				Part A	Reduce, Reuse, Recycle	356
Language	LAFS.K12.W.3.9	FS	Draw evidence from literary or informational texts to support analysis, reflection,	Part A	Environmental Justice for All	233
Arts	<u> </u>	15	and research.	Assessment		238
Language Arts	<u>LAFS.3.RI.1.2</u>	FS	Determine the main idea of a text; recount the key details and explain how they support the main idea.	3-5	Nothing Succeeds Like Succession	338

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	LAFS.3.SL.1.1	FS	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 <i>topics and texts</i> , building on others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.	3-5	Decisions, Decisions	224
Arts	<u>DIM 0.3.3B.111</u>	15	<ul> <li>b. Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).</li> <li>c. Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.</li> <li>d. Explain their own ideas and understanding in light of the discussion.</li> </ul>		Plant a Tree	353
Language Arts	LAFS.K12.SL.1.3	FS	Evaluate a speakers point of view, reasoning, and use of evidence and rhetoric.	Part B	The Global Climate	375
Language Arts	LAFS.3.W.1.1	FS	<ul> <li>Write opinion pieces on topics or texts, supporting a point of view with reasons.</li> <li>a. Introduce the topic or text they are writing about, state an opinion, and create an organizational structure that lists reasons.</li> <li>b. Provide reasons that support the opinion.</li> <li>c. Use linking words and phrases (e.g., because, therefore, since, for example) to connect opinion and reasons.</li> <li>d. Provide a concluding statement or section.</li> </ul>	3-5	Decisions, Decisions	224
Language Arts	LAFS.3.W.1.2	FS	<ul> <li>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</li> <li>a. Introduce a topic and group related information together; include illustrations when useful to aiding comprehension.</li> <li>b. Develop the topic with facts, definitions, and details.</li> <li>c. Use linking words and phrases (e.g., also, another, and, more, but) to connect ideas within categories of information.</li> <li>d. Provide a concluding statement or section.</li> </ul>	Assessment (Part A)	Life on the Edge	312
Language	LAFS.3. W.3.7	FS	Conduct short research projects that build knowledge about a topic.	3-5	Exploration Energy!	252
Arts	2111 0101 111.011	<u> </u>	Londuct short research projects that build knowledge about a topic.	3-3	Field, Forest, and Stream	261
Language Arts	<u>LAFS.4.RI.1.2</u>	FS	Determine the main idea of a text and explain how it is supported by key details; summarize the text.	3-5	Nothing Succeeds Like Succession	338

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	LAFS.4.SL.1.1	FS	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade <i>4 topics and texts</i> , building on others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.	3-5	Decisions, Decisions	224
Arts	<u> </u>	15	<ul> <li>b. Follow agreed-upon rules for discussions and carry out assigned roles.</li> <li>c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.</li> <li>d. Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.</li> </ul>		Plant a Tree	353
Language Arts	LAFS.4.SL.2.4	FS	Report on a topic or text, tell a story, or recount an experience in an organized manner, using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.	3-5	Exploration Energy!	252
Language Arts	LAFS.4.W.1.1	FS	<ul> <li>Write opinion pieces on topics or texts, supporting a point of view with reasons and information.</li> <li>a. Introduce a topic or text clearly, state an opinion, and create an organizational structure in which related ideas are grouped to support the writer's purpose.</li> <li>b. Provide reasons that are supported by facts and details.</li> <li>c. Link opinion and reasons using words and phrases (e.g., for instance, in order to, in addition).</li> <li>d. Provide a concluding statement or section related to the opinion presented.</li> </ul>	3-5	Decisions, Decisions	224
Language Arts	LAFS.4.W.1.2	FS	<ul> <li>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</li> <li>a. Introduce a topic clearly and group related information in paragraphs and sections; include formatting (e.g., headings), illustrations, and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.</li> <li>c. Link ideas within categories of information using words and phrases (e.g., another, for example, also, because).</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Provide a concluding statement or section related to the information or explanation presented.</li> </ul>	Assessment (Part A)	Life on the Edge	312

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	LAFS.4.W.2.4	FS	Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience. (Grade-specific expectations for writing	Assessment (Part A)	Life on the Edge	312
Arts	LAI 5.4. W.2.4	ГЗ	types are defined in standards 1–3 above.)	Assessment	Nature's Skyscrapers	330
Language	LAFS.4. W.3.7	FS	Conduct short research projects that build knowledge through investigation of	3-5	Exploration Energy!	252
Arts	<u> </u>	15	different aspects of a topic.	5-5	Field, Forest, and Stream	261
Language	LAFS.5.SL.1.1	FS	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on <i>grade 5 topics and texts</i> , building on others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.	3-5	Decisions, Decisions	224
Arts	<u>=                                    </u>		<ul> <li>b. Follow agreed-upon rules for discussions and carry out assigned roles.</li> <li>c. Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others.</li> <li>d. Review the key ideas expressed and draw conclusions in light of information and knowledge gained from the discussions.</li> </ul>	3-5	Plant a Tree	353
Language Arts	LAFS.5.SL.2.4	FS	Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.	3-5	Exploration Energy!	252
				Assessment	Field, Forest, and Stream	262
Language Arts	LAFS.5.SL.2.5	FS	Include multimedia components (e.g., graphics, sound) and visual displays in presentations when appropriate to enhance the development of main ideas or themes.	3-5	Nothing Succeeds Like Succession	338
				Assessment	Our Federal Forests	347
Language Arts	LAFS.5.W.1.1	FS	<ul> <li>Write opinion pieces on topics or texts, supporting a point of view with reasons and information.</li> <li>a. Introduce a topic or text clearly, state an opinion, and create an organizational structure in which ideas are logically grouped to support the writer's purpose.</li> <li>b. Provide logically ordered reasons that are supported by facts and details.</li> <li>c. Links opinion and reasons using words, phrases, and clauses (e.g., consequently, specifically).</li> <li>d. Provide a concluding statement or section related to the opinion presented.</li> </ul>	3-5	Decisions, Decisions	224

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	LAFS.5.W.1.2	FS	<ul> <li>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</li> <li>a. Introduce a topic clearly, provide a general observation and focus, and group related information logically; include formatting (e.g., headings), illustrations, and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.</li> <li>c. Link ideas within and across categories of information using words, phrases, and clauses (e.g., in contrast, especially).</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Provide a concluding statement or section related to the information or explanation presented.</li> </ul>	Assessment (Part A)	Life on the Edge	312
Language Arts	LAFS.5.W.2.4	FS	Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)	Assessment	Nature's Skyscrapers	330
Language Arts	LAFS.5. W.3.7	FS	Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.	3-5	Exploration Energy!	252
					Invasive Species	299
Language Arts	LAFS.6.L.3.6	FS	Acquire and use accurately grade-appropriate general academic and domain- specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.		Renewable or Not?	364
			or pinase important to comprehension or expression.	Part B	The Global Climate	375
Language	LAFS.6.RI.1.1	FS	Cite textual evidence to support analysis of what the text says explicitly as well as	Part A	Environmental	233
Arts	LAIS.U.KI.1.1	1.9	inferences drawn from the text.	Assessment	Justice for All	238

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
				Part A	Environmental	233
				Part B	Justice for All	233
					Field, Forest, and Stream	257
					Forest in the City	265
				Part A	Global Goods	272
		Engage effectively in a range of collaborative discussions (one-on-one, in groups,	Part B	Global Goods	212	
			and teacher-led) with diverse partners on grade 6 topics, texts, and issues, building on others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or studied required material;		If You Were the Boss	280
Language		define individual roles as needed. c. Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under		Improve Your Place	293	
Arts	<u>LAFS.6.SL.1.1</u>			Invasive Species	299	
				Part B	Our Federal Forests	342
			d. Review the key ideas expressed and demonstrate understanding of multiple perspectives through reflection and paraphrasing.		Plant a Tree	350
			Part A	Reduce, Reuse, Recycle	356	
				Part B	Renewable or Not?	364
				Part A	The Global	375
				Part B	Climate	313
				Part A	What's in a	382
				Part B	Label?	362

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language			Interpret information presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how it contributes to a topic, text, or issue under study.	(Includes Part A <u>and</u> Part B)	Environmental Justice for All	233
Arts	LAF5.0.3L.1./	FS		Assessment		238
				Part B	The Global Climate	375
			Delineate a speaker's argument and specific claims, distinguishing claims that are supported by reasons and evidence from claims that are not.		Decisions, Decisions	224
Language Arts	LAFS.6.SL.1.3	LAFS.6.SL.1.3 FS		Assessment		228
				Part B	The Global Climate	375

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
				Part A	Environmental Justice for All  Field, Forest, and Stream	233
				Part B		233
				Assessment		238
						257
				Part B	Global Goods	272
Language Arts	LAFS.6.SL.2.4	FS	Present claims and findings, sequencing ideas logically and using pertinent descriptions, facts, and details to accentuate main ideas or themes; use appropriate eye contact, adequate volume, and clear pronunciation.		Improve Your	293
				Assessment	Place	296
				Invasive	299	
				Assessment	Species	303
				Part B	Life on the Edge	308
			Part A	Nothing Succeeds Like Succession	339	
			Assessment	Renewable or Not?	371	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
					Decisions, Decisions	224	
				Part B	Environmental	233	
				Assessment	Justice for All	238	
				Assessment	Field, Forest, and Stream	262	
				Part B	Global Goods	272	
					Assessment		277
Language	V 1 FG 4 GV 0 F		Include multimedia components (e.g., graphics, images, music, sound) and visual		Improve Your	293	
Arts	<u>LAFS.6.SL.2.5</u>	FS	displays in presentations to clarify information.	Assessment	Place	296	
					Invasive Species	299	
				Part B	Life on the Edge	308	
				Part A	Nothing Succeeds Like Succession	334	
			Part B	Our Federal	342		
			Assessment	Forests	347		
				Part B	The Global Climate	375	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Write arguments to support claims with clear reasons and relevant evidence.  a. Introduce claim(s) and organize the reasons and evidence clearly.	Assessment	Environmental Justice for All	238
Language	LAFS.6.W.1.1	FS	<ul><li>b. Support claim(s) with clear reasons and relevant evidence, using credible sources and demonstrating an understanding of the topic or text.</li><li>c. Use words, phrases, and clauses to clarify the relationships among</li></ul>	Assessment (Part B)	Our Federal Forests	347
Arts			claim(s) and reasons. d. Establish and maintain a formal style.	Assessment	Renewable or Not?	371
			e. Provide a concluding statement or section that follows from the argument presented	Assessment	The Global Climate	380
			Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.  a. Introduce a topic; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.  b. Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.	Part A	Exploration Energy!	247
Language Arts	LAFS.6.W.1.2	<u>LAFS.6.W.1.2</u> FS			Improve Your Place	293
			<ul> <li>c. Use appropriate transitions to clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> </ul>	Assessment (Part A)	Life on the Edge	312
			<ul><li>e. Establish and maintain a formal style.</li><li>f. Provide a concluding statement or section that follows from the information or explanation presented.</li></ul>	Assessment	Plant a Tree	354

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Forest in the City	268
				Assessment	Global Goods	277
					Improve Your Place	293
T			Produce clear and coherent writing in which the development, organization, and	Assessment (Part A)	Life on the Edge	312
Language Arts	LAFS.6.W.2.4	FS	style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)		Nature's Skyscrapers	330
				Assessment	Nothing Succeeds Like Succession	339
					Renewable or Not?	364
					What's in a Label?	387
				Part B	Global Goods	272
					Invasive Species	299
				Part B	Live On the Edge	308
Language Arts	LAFS.6.W.3.7	FS	Conduct short research projects to answer a question, drawing on several sources and refocusing the inquiry when appropriate.	rait B	Living with Fire	315
				Part A	Our Federal	342
				Part B	Forests	J <del>4</del> 2
					Plant a Tree	350

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	A APG CAVO	and research.  a. Apply grade 6 Reading standards to literature (e.g., "Compare and cont	a. Apply grade 6 Reading standards to literature (e.g., "Compare and contrast texts in different forms or genres [e.g., stories and poems; historical novels	Part A	Environmental Justice for All	233
Arts	<u>LAI 3.0. W.J./</u>	1.2	topics").  b. Apply grade 6 Reading standards to literary nonfiction (e.g., "Trace and evaluate the argument and specific claims in a text, distinguishing claims that are supported by reasons and evidence from claims that are not").	Assessment		238
Language Arts	LAFS.68.RH.3.8	FS	Distinguish among fact, opinion, and reasoned judgment in a text.	Part A	Environmental Justice for All	233
Language Arts	LAFS.68.RST.2.4	FS	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6–8 texts and topics.	Part B	Environmental Justice for All	233
Language Arts	LAFS.68.RST.3.8	FS	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	Part A	Environmental Justice for All	233
			Write arguments focused on <i>discipline-specific content</i> .  a. Introduce claim(s) about a topic or issue, acknowledge and distinguish the	Assessment	Environmental Justice for All	238
			claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.  b. Support claim(s) with logical reasoning and relevant, accurate data and	Assessment (Part B)	Our Federal Forests	347
Language Arts	LAFS.68.WHST.1.1	FS	evidence that demonstrate an understanding of the topic or text, using credible sources.		Renewable or Not?	371
	Aits		<ul> <li>c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.</li> <li>d. Establish and maintain a formal style.</li> <li>e. Provide a concluding statement or section that follows from and supports the argument presented.</li> </ul>	Assessment	The Global Climate	380

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Forest in the City	268
				Assessment	Global Goods	277
					Improve Your Place	293
Language Arts	LAFS.68.WHST.2.4	FS	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	Assessment (Part A)	Life on the Edge	312
					Nature's Skyscrapers	330
				Assessment	Renewable or Not?	364
					What's in a Label?	387
				Assessment	Environmental Justice for All	238
Language Arts	LAFS.68.WHST.2.6	FS.68.WHST.2.6 FS	Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.		Exploration Energy!	254
				Part B	Life on the Edge	308
				Part B	Global Goods	272
					Invasive Species	299
				Part B	Life on the Edge	308
Language Arts	LAFS.68.WHST.3.7	FS	Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.	Falt D	Living with Fire	315
			questions that allow for multiple avenues of exploration.	Part A	Our Federal	342
			Part B	Forests	342	
					Plant a Tree	350

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	Language Arts  LAFS.68.WHST.3.9 FS	FS	Draw evidence from informational texts to support analysis reflection, and	Part A	Environmental	233
Arts		research.	Assessment	Justice for All	238	
		FS	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.		Invasive Species	299
Language Arts	<u>LAFS.7.L.3.6</u>				Renewable or Not?	364
				Part B	The Global Climate	375
Language	LAFS./.KI.I.I   FS	Cite several pieces of textual evidence to support analysis of what the text says	Part A	Environmental Justice for All	233	
Arts		15	explicitly as well as inferences drawn from the text.		238	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
				Part A	Environmental	233
			Part B	Justice for All	255	
					Field, Forest, and Stream	257
					Forest in the City	265
			and deadlines, and define individual roles as needed.  c. Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion	Part A	Global Goods	272
				Part B	Global Goods	212
					If You Were the Boss	280
Language		study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.  FS  b. Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.  c. Pose questions that elicit elaboration and respond to others' questions and			Improve Your Place	293
Arts	<u>LAFS.7.SL.1.1</u>				Invasive Species	299
				Part B	Our Federal Forests	342
				Plant a Tree	350	
			Part A	Reduce, Reuse, Recycle	356	
				Part B	Renewable or Not?	364
			Part A	The Global	375	
			Part B	Climate	313	
			Part A	What's in a	382	
				Part B	Label?	362

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Analyze the main ideas and supporting details presented in diverse media and	(Includes Part A <u>and</u> Part B)	Environmental Justice for All	233
Language Arts	-   LAFS./.SL.1.2   FX	FS	formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study.	Assessment		238
				Part B	The Global Climate	375
		1.3 FS	Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and the relevance and sufficiency of the evidence.		Decisions,	224
Language Arts	LAFS.7.SL.1.3			Assessment	Decisions	228
				Part B	The Global Climate	375

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A		233
				Part B	Environmental Justice for All	233
				Assessment		238
				Part A	Exploration Energy!	247
			Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation.		Field, Forest,	257
				Assessment	and Stream	262
Language	1 450 7 01 2 4	FS		Part B	Global Goods	272
Arts	<u>LAFS.7.SL.2.4</u>				Improve Your	293
				Assessment	Place	296
				Invasive	299	
				Assessment	Species	303
			Pa	Part B	Life on the Edge	308
			Part A	Nothing Succeeds Like Succession	339	
				Assessment	Renewable or Not?	371

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
				Part B	Environmental Justice for All	233
				Assessment		238
				Assessment	Field, Forest, and Stream	262
				Part B	Global Goods	272
				Assessment		277
Language			FS Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points.		Improve Your Place	293
Arts	<u>LAFS.7.SL.2.5</u>	FS		Assessment		296
					Invasive Species	299
		Part B	Part B	Life on the Edge	308	
				Part A	Nothing Succeeds Like Succession	339
				Part B	Our Federal	342
				Assessment	Forests	347
				Part B	The Global Climate	375

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Write arguments to support claims with clear reasons and relevant evidence.  a. Introduce claim(s), acknowledge alternate or opposing claims, and organize the reasons and evidence logically.	Assessment	Environmental Justice for All	238
Language Arts	<u>LAFS.7.W.1.1</u>	FS	b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.	Assessment (Part B)	Our Federal Forests	347
Arts			<ul><li>c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), reasons, and evidence.</li><li>d. Establish and maintain a formal style.</li></ul>	Assessment	Renewable or Not?	371
			e. Provide a concluding statement or section that follows from and supports the argument presented.		The Global Climate	380
			Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.  a. Introduce a topic clearly, previewing what is to follow; organize ideas,	Part A	Exploration Energy!	247
Language	<u>LAFS.7.W.1.2</u>	AFS.7.W.1.2 FS	concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.  b. Develop the topic with relevant facts, definitions, concrete details,		Improve Your Place	293
Arts			<ul> <li>quotations, or other information and examples.</li> <li>c. Use appropriate transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> </ul>	Assessment (Part A)	Life on the Edge	312
		e. Establish and maintain a formal style.  f. Provide a concluding statement or section that follows from and supports the information or explanation presented.	Assessment	Plant a Tree	354	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Forest in the City	268
					Global Goods	277
					Improve Your Place	293
Language Arts	LAFS.7.W.2.4	FS	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations	Assessment (Part A)	Life on the Edge	312
			for writing types are defined in standards 1–3 above.)		Nature's Skyscrapers	330
				Assessment	Nothing Succeeds Like Succession	339
					What's in a Label?	387
		LAFS.7.W.3.7 FS	Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation.	Part B	Global Goods	272
					Invasive Species	299
Language	I AFS 7 W 2 7			Part B	Life on the Edge	308
Arts	<u>LAPS.7.W.5.7</u>			Part A	Our Federal Forests	342
				Part B		342
					Plant a Tree	350
Language	LAFS.7.W.3.9	and research.  a. Apply grade 7 Reading standards to literature (e.g., "Compare and c a fictional portrayal of a time, place, or character and a historical acc of the same period as a means of understanding how authors of fiction or alter history").  b. Apply grade 7 Reading standards to literary nonfiction (e.g. "Trace evaluate the argument and specific claims in a text, assessing whether	a. Apply grade 7 Reading standards to literature (e.g., "Compare and contrast a fictional portrayal of a time, place, or character and a historical account of the same period as a means of understanding how authors of fiction use	Part A	Environmental	233
Arts LAFS./.W.3.9			b. Apply grade 7 Reading standards to literary nonfiction (e.g. "Trace and evaluate the argument and specific claims in a text, assessing whether the reasoning is sound and the evidence is relevant and sufficient to support		Justice for All	238

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
	Language Arts LAFS.8.L.3.6 FS		Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.		Invasive Species	299
		FS			Renewable or Not?	364
				Part B	The Global Climate	375
Language	LAFS.8.RI.1.1	FS	Cite the textual evidence that most strongly supports an analysis of what the text says explicitly as well as inferences drawn from the text.	Part A	Environmental Justice for All	233
Arts	LAI'S.8.NI.1.1	ГЭ		Assessment		238
Language Arts	LAFS.8.RI.3.8	FS	Delineate and evaluate the argument and specific claims in a text, assessing whether the reasoning is sound and the evidence is relevant and sufficient; recognize when irrelevant evidence is introduced.	Part B	The Global Climate	375

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
			Part A Part B	Part A	Environmental	233
				Part B	Justice for All	255
					Field, Forest and Stream	257
					Forest in the City	265
			Engage effectively in a range of collaborative discussions (one-on-one, in groups,	Part A	Global Goods	272
				Part B		212
		and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.  a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.  b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.  c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.  d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.		If You Were the Boss	280	
Language			study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.  FS  b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.		Improve Your Place	293
Arts	<u>LAFS.8.SL.1.1</u>				Invasive Species	299
			others' questions and comments with relevant evidence, observations, and	Part B	Our Federal Forests	342
				Plant a Tree	350	
			Part A	Reduce, Reuse, Recycle	356	
				Part B	Renewable or Not?	364
			Part A	The Global	375	
			Part B	Climate	313	
			Part A	What's in a	292	
				Part B	Label?	382

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Delineate a speaker's argument and specific claims, evaluating the soundness of the		Decisions, Decisions	224
Language Arts	LAFS.8.SL.1.3	FS	reasoning and relevance and sufficiency of the evidence and identifying when irrelevant evidence is introduced.	Assessment		228
			intelevant evidence is introduced.	Part B	The Global Climate	375
				Part A		222
				Part B	Environmental Justice for All	233
				Assessment		238
		Present claims and findings, emphasizing salient points in a focused, coherent  8.SL.2.4 FS manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation.	Part A	Exploration Energy!	247	
			manner with relevant evidence, sound valid reasoning, and well-chosen details; use		Field, Forest, and Stream	257
				Assessment		262
Language				Part B	Global Goods	272
Arts	LAFS.8.SL.2.4				Improve Your Place	293
				Assessment		296
					Invasive Species	299
				Assessment		303
				Part B	Life on the Edge	308
				Part A	Nothing Succeeds Like Succession	339
				Assessment	Renewable or Not?	371

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
				Part B	Global Goods	272
				Assessment		277
					Improve Your	293
	Language Arts LAFS.8.SL.2.5			Assessment	Place	296
		FS	Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.		Invasive Species	299
				Part B	Life on the Edge	308
				Part A	Nothing Succeeds Like Succession	339
				Part B	Our Federal Forests	342
				Assessment		347
				Part B	The Global Climate	375
			Write arguments to support claims with clear reasons and relevant evidence.  a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence	Assessment	Environmental Justice for All	238
Language	I AFS 8 W 1 1	FS or text. c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence. d. Establish and maintain a formal style.	b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic	Assessment (Part B)	Our Federal Forests	347
Arts	LAI 5.0. W.1.1		<ul> <li>c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.</li> <li>d. Establish and maintain a formal style.</li> <li>e. Provide a concluding statement or section that follows from and supports</li> </ul>	Aggagament	Renewable or Not?	371
				Assessment	The Global Climate	380

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.  a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting	Part A	Exploration Energy!	247
Language	I AES 9 W 1 2	EC	<ul><li>(e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li><li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete</li></ul>		Improve Your Place	293
Arts		FS	details, quotations, or other information and examples.  c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.  d. Use precise language and domain-specific vocabulary to inform about or explain the topic.  e. Establish and maintain a formal style.	Assessment (Part A)	Life on the Edge	312
				Assessment	Plant a Tree	354
				Assessment	Forest in the City	268
					Global Goods	277
					Improve Your Place	293
Language			Produce clear and coherent writing in which the development, organization, and	Assessment (Part A)	Life on the Edge	312
Arts	LAFS.8.W.2.4	FS	style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)		Nature's Skyscrapers	330
				Assessment	Nothing Succeeds Like Succession	339
					Renewable or Not?	364
					What's in a Label?	387

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Use technology, including the Internet, to produce and publish writing and present	Assessment	Environmental Justice for All	238
Language Arts	LAFS.8.W.2.6	FS	the relationships between information and ideas efficiently as well as to interact and collaborate with others.		Exploration Energy!	254
				Part B	Life on the Edge	308
			Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.	Part B	Global Goods	272
					Invasive Species	299
		AFS.8.W.3.7 FS		Part B	Life on the Edge	308
Language Arts	LAFS.8.W.3.7				Living with Fire	315
				Part A	Our Federal Forests	342
				Part B		
					Plant a Tree	350
Language			Draw evidence from literary or informational texts to support analysis, reflection, and research.  a. Apply grade 7 Reading standards to literature (e.g., "Compare and contrast a fictional portrayal of a time, place, or character and a historical account	Part A	Environmental Justice for All	233
Arts LAFS.8.	LAFS.8.W.3.9		of the same period as a means of understanding how authors of fiction use or alter history").  b. Apply grade 7 Reading standards to literary nonfiction (e.g. "Trace and evaluate the argument and specific claims in a text, assessing whether the reasoning is sound and the evidence is relevant and sufficient to support the claims").	Assessment		238

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Forest in the City	257
				3-5		261
				Assessment		262
			Reason abstractly and quantitatively. Mathematically proficient students make			265
			sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of	Assessment		268
Mathematics	MAFS.K12.MP.2.1	FS				280
174441611144165						325
			creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and	3-5		329
			knowing and flexibly using different properties of operations and objects.	Part C	Nothing Succeeds Like Succession	334
				Part A	Reduce, Reuse, Recycle	356
			Part A	The Global Climate	375	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Construct viable arguments and critique the reasoning of others.  Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth		If You Were	280
			of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.	Assessment	the Boss	284
Mathematics	MAFS.K12.MP.3.1	FS		Part C	Nothing Succeeds Like	334
				Assessment	Succession	339
			Model with mathematics. Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making		Forest in the City	265
Mathematics	MAFS.K12.MP.4.1	AFS.K12.MP.4.1 FS			If You Were the Boss	280
			assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a		Nature's Skyscrapers	325
			practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	Part A	Reduce, Reuse, Recycle	356
				Part B	Renewable or Not?	364
				Part A	The Global Climate	375

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
			Use appropriate tools strategically. Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.		Nature's	325
Mathematics	MAFS.K12.MP.5.1	FS		3-5	Skyscrapers	329
Watermatics	M M B M Z M B M	15		Part B	Renewable or Not?	364
				Part B	The Global Climate	375
Mulanatia	MAES VIO MD CI		Attend to precision. Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.		Nature's	325
Watternatics	Mathematics MAFS.K12.MP.6.1	FS		Assessment	Skyscrapers	330
Mathematics	MAFS.K12.MP.8.1	FS	Look for and express regularity in repeated reasoning. Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through $(1, 2)$ with slope 3, middle school students might abstract the equation $(y - 2)/(x - 1) = 3$ . Noticing the regularity in the way terms cancel when expanding $(x - 1)(x + 1)$ , $(x - 1)(x^2 + x + 1)$ , and $(x - 1)(x^3 + x^2 + x + 1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.		Nature's Skyscrapers	325

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Mathematics	MAFS.4.MD.1.1	FS	Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	3-5	Nature's Skyscrapers	329
Mathematics	MAFS.6.RP.1.1	FS	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."	Part A	Reduce, Reuse, Recycle	356
Mathematics	MAFS.6.SP.1.3	FS	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	Part B	Exploration Energy!	247
Mathematics	Mathematics MAFS.6.SP.2.5	a. Reporting the number of observations. b. Describing the nature of the attribute under investigation was measured and its units of measurement. c. Giving quantitative measures of center (median and/or mariability) (interquartile range and/or mean absolute devidescribing any overall pattern and any striking deviation pattern with reference to the context in which the data with the choice of measures of center and variability	<ul><li>b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.</li><li>c. Giving quantitative measures of center (median and/or mean) and</li></ul>	Part B	Exploration Energy!	247
			variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.  d. Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.		Nature's Skyscrapers	325
Mathematics	MAFS.7.RP.1.2	MAFS.7.RP.1.2	Recognize and represent proportional relationships between quantities.  a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.  b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.  c. Represent proportional relationships by equations. For example, if total		If You Were the Boss	280
Mathematics	FS	<ul> <li>c. Represent proportional relationships by equations. For example, it total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as t = pn.</li> <li>d. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate.</li> </ul>	Part A	The Global Climate	375	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Forest in the City	265
			Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a	Part C	Nothing Succeeds Like Succession	334
Mathematics	MAFS.7.SP.1.1	FS	sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid	Part A	Our Federal	342
			inference.	Part B	Forests	342
				Part A	Reduce, Reuse, Recycle	356
Mathematics	MAFS.7.SP.3.7	FS	Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy.  a. Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events. For example, if a student is selected at random from a class, find the probability that Jane will be selected and the probability that a girl will be selected.  b. Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process. For example, find the approximate probability that a spinning penny will land heads up or that a tossed paper cup will land open-end down. Do the outcomes for the spinning penny appear to be equally likely based on the observed frequencies	Assessment	The Global Climate	380
				Assessment	Decisions, Decisions	228
Social Studies	SS.3.C.2.1	NGSSS	Identify group and individual actions of citizens that demonstrate civility,		Plant a Tree	353
			cooperation, volunteerism, and other civic virtues.	3-5	Reduce, Reuse, Recycle	356
Social Studies	SS.4.C.2.2	NGSSS	Identify ways citizens work together to influence government and help solve community and state problems.	Assessment	Decisions, Decisions	228
Social Studies	SS.4.C.2.3	NGSSS	Explain the importance of public service, voting, and volunteerism.	3-5	Improve Your Place	295

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Social Studies	SS.5.G.4.1	NGSSS	Construct maps, charts, and graphs to display geographic information.	3-5	Improve Your Place	295
Social Studies	SS.6.G.1.2	NGSSS	Analyze the purposes of map projections (political, physical, special purpose) and explain the applications of various types of maps.	Part B	Environmental Justice for All	233
Social Studies	SS.7.C.2.3	NGSSS	Experience the responsibilities of citizens at the local, state, or federal levels.	Part B	Reduce, Reuse, Recycle	356
Social Studios	ocial Studies SS.7.C.2.10 NGSSS	NGSSS	Examine the impact of media, individuals, and interest groups on monitoring and		Decisions, Decisions	224
Social Studies		NUSSS	influencing government.	Assessment		228
	SS.7.C.2.12	<u>SS.7.C.2.12</u> NGSSS	Develop a plan to resolve a state or local problem by researching public policy alternatives, identifying appropriate government agencies to address the issue, and determining a course of action.	Part A	Exploration Energy!	233
				Assessment		238
				Part B		247
Social Studies				Assessment		254
						293
				Part B	Our Federal Forests	342
					Decisions,	224
	SS.7.C.2.13	) vaaa =		Assessment	Decisions	228
Social Studies		SS.7.C.2.13 NGSSS	Examine multiple perspectives on public and current issues.	Part A	Environmental Justice for All	233
					If You Were the Boss	280

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Improve Your Place	293
				Part A	Our Federal Forests	342
Social Studies	SS.7.C.2.14	NGSSS	Conduct a service project to further the public good.	Part B		342
					Plant a Tree	350
				Part B	Reduce, Reuse, Recycle	356
Social Studies	SS.7.E.1.3	NGSSS	Review the concepts of supply and demand, choice, scarcity, and opportunity cost as they relate to the development of the mixed market economy in the United States.	Part B	Renewable or Not?	364
Social Studies	SS.7.E.3.3	NGSSS	Compare and contrast a single resource economy with a diversified economy.	Part B	Renewable or Not?	364
Social Studies	\$\$ 7 G 3 1	<u>SS.7.G.3.1</u> NGSSS	Use maps to describe the location, abundance, and variety of natural resources in North America.	Part A	Global Goods	272
Social Studies	<u>33.7.U.3.1</u>			Part B		212
Social Studies	SS.7.E.3.4	NGSSS	Compare and contrast the standard of living in various countries today to that of the United States using gross domestic product (GDP) per capita as an indicator.	Part B	Renewable or Not?	364
Social Studies	SS.7.G.4.2	NGSSS	Use maps and other geographic tools to examine the importance of demographics within political divisions of the United States.	Part B	Environmental Justice for All	233
					Decisions, Decisions	224
					If You Were the Boss	280
Social Studios	SS 7 C 5 1	NCCCC	Use a choropleth or other map to geographically represent current information	Part B	Environmental Justice for All	233
Social Studies SS.7.G.5.1	<u>55.7.U.3.1</u>	<u>S.7.G.5.1</u> NGSSS	about issues of conservation or ecology in the local community.		Improve Your Place	293
				Part B	Nothing Succeeds Like	334
				Succession	339	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Social Studies	SS.7.G.6.1	NGSSS	Use Geographic Information Systems (GIS) or other technology to view maps of current information about the United States.	Part B	Environmental Justice for All	233
Social Studies	SS.8.FL.2.1	NGSSS	Explain why when deciding what to buy, consumers may choose to gather information from a variety of sources. Describe how the quality and usefulness of information provided by sources can vary greatly from source to source. Explain that, while many sources provide valuable information, other sources provide information that is deliberately misleading.	Part A	What's in a Label??	382
Social Studies	SS.8.FL.2.2	NGSSS	Analyze a source's incentives in providing information about a good or service, and how a consumer can better assess the quality and usefulness of the information.	Part A	What's in a Label??	382
Social Studies	SS.8.G.2.2	SS.8.G.2.2 NGSSS	Use geographic terms and tools to analyze case studies of regional issues in different parts of the United States that have had critical economic, physical, or political ramifications.	Part A	Environmental Justice for All	233
Social Studies	55.0.0.2.2	NOSSS		Part B		
				Part A	Global Goods Our Federal	272
G 1 G 1	55 9 C 2 2	Magaa	Use geographic terms and tools to explain differing perspectives on the use of	Part B		272
Social Studies SS.8.G.3.2	<u>55.6.U.5.2</u>	SS.8.G.3.2 NGSSS	renewable and non-renewable resources in the United States and Florida over time.	Part A		242
			Part B	Forests	342	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A	Environmental Justice for All	233
				Part A	Exploration Energy!	247
					Forest in the City	265
				Part A	Global Goods	272
Social Studies	SS.8.G.5.1	NGSSS	Describe human dependence on the physical environment and natural resources to	Part B	Global Goods	
Bootal Studies	25.0.01212	110000	satisfy basic needs in local environments in the United States.	Part A	Our Federal Forests	342
				Part B		5 12
					Plant a Tree	350
				Part B	Renewable or Not?	364
				Part A	What's in a Label?	382
				Part A	Environmental Justice for All	233
				Part B		233
				Assessment		238
Social Studies	SS.8.G.5.2	NGSSS	Describe the impact of human modifications on the physical environment and ecosystems of the United States throughout history.		Invasive Species	299
			or and or and orange amoughout mistory.	Part A	Life on the	308
				Part B	Edge	500
				Part A	Reduce, Reuse, Recycle	356

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A	Nothing Succeeds Like	
Social Studies	SS.8.G.6.1	NGSSS	Use appropriate maps and other graphic representations to analyze geographic	Part B		334
Social Studies	<u>55.0.0.0.1</u>	110555	problems and changes over time throughout American history.	Part C	Succession	
				Assessment		339
			Cite evidence to explain and justify reasoning.	Part B	Environmental Justice for All	233
				Assessment		238
		A.K12.EE.1.1 BEST		Assessment	Forest in the City	268
				Part B	Global Goods	272
				Assessment	Global Goods	277
					If You Were the Boss	280
Language Arts	ELA.K12.EE.1.1				Improve Your Place	293
				Assessment	Life on the Edge	312
				Part B	Living with Fire	315
				Assessment	Nature's Skyscrapers	330
				Part B	Our Federal	342
				Assessment	Forests	347
				Assessment	Renewable or Not?	371

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A and Part B	The Global Climate	375
Language	ELA.K12.EE.1	BEST	Cite evidence to explain and justify reasoning.	Assessment		380
Arts	continued	DLS1	Cite evidence to exprain and justify reasoning.	Part B	What's in a	382
			Assessment	Label?	387	
				Decisions, Decisions	224	
Arts	Language Arts ELA.K12.EE.2.1	BEST	Read and comprehend grade-level complex texts proficiently.	Part A	Nothing Succeeds Like Succession	334
					Decisions, Decisions	224
						257
				3-5	Field, Forest, and Stream	261
Language Arts	ELA.K12.EE.3.1	BEST	Make inferences to support comprehension.	Assessment		262
					If You Were the Boss	280
				Part A and Part B	Our Federal	342
			Assessment	Forests	347	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions,	224
				3-5	Decisions	227
				Part B	Environment al Justice for All	233
				Part A and Part B	Exploration Energy!	247
			Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.		Field, Forest, and Stream	257
					Forest in the City	265
Language Arts	ELA.K12.EE.4.1	BEST		Part A and Part B	Global Goods	272
Tits					If You Were the Boss	280
					Improve	293
				3-5	Your Place	295
					Invasive Species	299
				Part B	Living with Fire	315
				Part A and Part B	Nothing Succeeds	334
			3-5	Like Succession	338	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part B	Our Federal Forests	342
					Plant a Tree	350
				3-5		353
Language Arts	ELA.K12.EE.4.1 - Continues	BEST	Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.	Part A	Reduce, Reuse, Recycle	356
				Part A and Part B	Renewable or Not?	364
				Part A and Part B	The Global Climate	375
				Part A	What's in a Label?	382
				Part B	Environment al Justice for All  Exploration	233
				Assessment		238
				3-5		252
Language				Assessment	Energy!	254
Arts	ELA.K12.EE.5.1	BEST	Use the accepted rules governing a specific format to create quality work.		Invasive Species	299
				Part B	Life on the Edge	308
				Part B	Living with Fire	315
				Assessment		320

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A, Part B and Part C	Nothing Succeeds Like	334
				Assessment	Succession	339
				Part B	Our Federal	342
				Assessment	Forests	347
Language		= BEST	Use the accepted rules governing a specific format to create quality work.	Assessment	Plant a Tree	354
Arts	continued			Part A and Part B	Reduce, Reuse, Recycle	356
				3-5		361
				Assessment		362
				Part B	What's in a Label?	382
				Assessment		387
				Part B	Life on the Edge	308
Language Arts	ELA.K12.EE.6.1	CLA.K12.EE.6.1 BEST	Use appropriate voice and tone when speaking or writing.	Part A and Part B	What's in a Label?	382
				Assessment		387

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	ELA.3.C.1.3	BEST	Write opinions about a topic or text, include reasons supported by details from one or more sources, use transitions, and provide a conclusion.	3-5	Decisions, Decisions	227
Language Arts	ELA.3.C.2.1	BEST	Present information orally, in a logical sequence, using nonverbal cues, appropriate volume, and clear pronunciation.	3-5	Exploration Energy!	252
Language Arts	ELA.3.C.4.1	BEST	Conduct research to answer a question, organizing information about the topic from multiple sources.	3-5	Exploration Energy!	252
Language Arts	ELA.3.C.5.2	BEST	Use digital writing tools individually or collaboratively to plan, draft, and revise writing.	Assessment	Exploration Energy!	254
Language Arts	ELA.4.C.2.1	BEST	Present information orally, in a logical sequence, using nonverbal cues, appropriate volume, and clear pronunciation.	3-5	Exploration Energy!	252
Language Arts	ELA.4.C.4.1	BEST	Conduct research to answer a question, organizing information about the topic, using multiple valid sources.	3-5	Exploration Energy!	252
Language Arts	ELA.4.C.5.1	BEST	Arrange multimedia elements to create emphasis in oral or written tasks.	3-5	Exploration Energy!	252
Language Arts	ELA.4.C.5.2	BEST	Use digital writing tools individually or collaboratively to plan, draft, and revise writing.	Assessment	Exploration Energy!	254
Language Arts	ELA.5.C.2.1	BEST	Present information orally, in a logical sequence, using nonverbal cues, appropriate volume, clear pronunciation, and appropriate.	3-5	Exploration Energy!	252
Language Arts	ELA.5.C.4.1	BEST	Conduct research to answer a question, organizing information about the topic and using multiple reliable and valid sources.	3-5	Exploration Energy!	252
Language Arts	ELA.5.C.5.1	BEST	Arrange multimedia elements to create emphasis in oral or written tasks.	3-5	Exploration Energy!	252
Language Arts	ELA.5.C.5.2	BEST	Use digital writing tools individually or collaboratively to plan, draft, and revise writing.	Assessment	Exploration Energy!	254
					Decisions, Decisions	224
Language Arts	PIA6I7F74	BEST Read grade-level texts with accuracy, automaticity, and appropriate pro- expression.	Read grade-level texts with accuracy, automaticity, and appropriate prosody or expression.	Part A	Nothing Succeeds Like Succession	334

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language	FLA 6G12	PEGT	Write personal or fictional narratives using narrative techniques,		Global Goods	277
Arts	ELA.6.C.1.2	BEST	precise words and phrases, and figurative language.	Assessment	Nothing Succeeds Like Succession	339
				Assessment	Environmental Justice for All	238
				Assessment	Global Goods	277
				Improve Your Place	293	
	Language Arts  ELA.6.C.1.3		Write and support a claim using logical reasoning, relevant evidence from sources, elaboration, and a logical organizational structure with varied transitions.	Part B	V:0 4 F1	308
		A.6.C.1.3 BEST		Assessment (Part B)	Life on the Edge	312
				Assessment (Part B)	Our Federal Forests	347
					Renewable or Not?	371
				Assessment	The Global Climate	380
					What's in a Label?	387
				Part A	Exploration Energy!	247
				Part B	Global Goods	272
Language	ELA.6.C.1.4	BEST	Write expository texts to explain and/or analyze information from multiple sources, using a logical organizational structure, relevant		Invasive Species	299
Arts	ELA.0.C.1.4	DESI	elaboration, and varied transitions.	Part B	Life on the Edge	308
				Aggaggmant	Our Federal Forests	347
				Assessment	Plant a Tree	354
Language Arts	ELA.6.C.1.5	BEST	Improve writing by planning, revising, and editing, considering feedback from adults and peers.		Improve Your Place	293

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
				Part B	Environmental	233
				Assessment	Justice for All	238
				Part A	Exploration Energy!	247
					Field, Forest, and Stream	257
			Present information orally, in a logical sequence, using nonverbal cues, appropriate volume, clear pronunciation, and appropriate pacing.  Assessment	Assessment	Forest in the City	268
				Part B	Global Goods	272
Language Arts	ELA.6.C.2.1	BESTT			If You Were the Boss  Improve Your Place	280
Aits				Assessment		284
						293
				Assessment		296
					Invasive Species	299
				Down D	Life on the Edge	308
				Part B	Living with Fire	315
				Part A	Nothing Succeeds Like Succession	334

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number	
				Part A	Our Federal Forests	342	
				Part B	Reduce, Reuse, Recycle	356	
Language			Present information orally, in a logical sequence, using nonverbal cues,		Renewable or Not?	364	
Arts	ELA.6.C.2.1 continued	BEST	appropriate volume, clear pronunciation, and appropriate pacing.	Part B	The Global Climate	375	
				Assessment (Part B)		380	
				Part B	What's in a Label?	382	
				Assessment		387	
				Part B	Environment al Justice for All	233	
				Part A	Exploration Energy!	247	
				Part B	Global Goods	272	
Language Arts	ELA.6.C.4.1	BEST	Conduct research to answer a question, drawing on multiple reliable and valid sources, and refocusing the inquiry when appropriate.		Invasive Species	299	
Aits			sources, and rerocusing the inquity when appropriate.	Part B	Life on the Edge	308	
				Par	rail D	Living with Fire	315
				Part A and Part B	Our Federal Forests	342	
					Plant a Tree	350	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Language Arts	ELA.6.C.5.1	BEST	Integrate diverse digital media to enhance audience engagement in oral or written tasks.	Assessment	Environment al Justice for All	238
Aits			WITTER LASKS.	Part B	Life on the Edge	308
				Assessment (Part B)	Exploration Energy!	254
Language Arts	ELA.6.C.5.2	BEST	Use digital tools to produce writing.		Improve Your Place	293
				Assessment	What's in a Label?	387
Language Arts	ELA.6.R.2.4	6.R.2.4 BEST	Track the development of an argument, identifying the types of reasoning used.	Part B	Environment al Justice for All	233
Arts				Part A	What's in a Label?	382
				Part A and Part B	Exploration Energy!	247
Language			Integrate academic vocabulary appropriate to grade level in speaking and	Assessment (Part A & Part B)		254
Arts	ELA.6.V.1.1	BEST	writing.		If You Were the Boss	280
				Assessment		284
				Part B	Life on the Edge	308

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A, Part B, and Part C	Nothing Succeeds Like	334
				Assessment	Succession	339
	EV A C.V. 1.1			Part B	Reduce, Reuse, Recycle  Renewable or Not?	356
Language Arts	ELA.6.V.1.1 - continued	BEST	Integrate academic vocabulary appropriate to grade level in speaking and writing.	Assessment		362
				Part A and Part B		364
				Assessment		371
				Assessment	What's in a Label?	387
Language Arts	ELA.6.V.1.2	BEST	Apply knowledge of Greek and Latin roots and affixes to determine meanings of words and phrases in grade-level content.	Part A	Renewable or Not?	364
					Invasive Species	299
Language Arts	ELA.6.V.1.3	BEST	Apply knowledge of context clues, figurative language, word relationships, reference materials, and/or background knowledge to determine the connotative and denotative meaning of words and phrases, appropriate to grade level.	Part A	Renewable or Not?	364
			and denotative incaming of words and pinases, appropriate to grade level.	Part B	The Global Climate	375
T			Write personal or fictional narratives using narrative techniques, a recognizable point of view, precise words and phrases, and figurative language.		Global Goods	277
Arts	Language Arts ELA.7.C.1.2	Best		Assessment	Nothing Succeeds Like Succession	339

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Environmental Justice for All	238
				Global Goods	277	
					Improve Your Place	293
				Part B	Life on the Edge	308
				Assessment (Part B)		312
		BEST	Write and support a claim using logical reasoning, relevant evidence from sources, elaboration, a logical organizational structure with varied transitions, and acknowledging at least one counterclaim.  Part B  Part B	Assessment (Part B)	Our Federal Forests	347
Language Arts	ELA.7.C.1.3			Assessment	Renewable or Not?	364
					The Global Climate	380
				Part B	Global Goods	272
					Invasive Species	299
				Part B	Life on the Edge	308
				Assessment	Our Federal Forests	347
				1 Ibbeddiffellt	Plant a Tree	354
Language Arts	ELA.7.C.1.5	BEST	Improve writing by planning, revising, and editing, considering feedback from adults and peers.		Improve Your Place	293

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
				Part B	Environmental Justice for All	233
				Assessment		238
				Part A	Exploration Energy!	247
					Field, Forest, and Stream	257
				Assessment	Forest in the City	268
			Present information orally, in a logical sequence, emphasizing key points that support the central idea.	Part B	Global Goods	272
					If You Were the Boss  Improve Your Place	280
Language Arts	ELA.7.C.2.1			Assessment		284
						293
				Assessment		296
					Invasive Species	299
				Part B	Life on the Edge	308
				Part B	Living with Fire	315
			Part A	Nothing Succeeds Like Succession	334	
			Part A	Our Federal Forests	342	

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part B	Reduce, Reuse, Recycle	356
					Renewable or Not?	364
Language Arts	ELA.7.C.2.1 - continued	BEST	Present information orally, in a logical sequence, emphasizing key points that support the central idea	Part B	The Global	375
Aits	continued		support the central idea	Assessment (Part B)	Climate	380
			Part B	What's in a	382	
				Assessment	Label?	387
				Part B	Environmental Justice for All	233
				Part A	Exploration Energy!	247
				Part B	Global Goods	272
					Invasive Species	299
Language Arts	ELA.7.C.4.1	BEST	Conduct research to answer a question, drawing on multiple reliable and valid sources, and generating additional questions for further research.	Part B	Life on the Edge	308
					Living with Fire	315
					Our Federal Forests	242
				Part B		342
					Plant a Tree	350

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Environmental Justice for All	238
				Part B	Life on the Edge	308
Language	ELA.7.C.5.1	BEST	Integrate diverse digital media to build cohesion in oral or written tasks.	Part B	Our Federal Forests  Plant a Tree	342
Arts				Assessment		347
						350
				Assessment		354
				Assessment (Part B)	Exploration Energy!	254
				Part B	Global Goods	272
					Improve Your Place	293
Language Arts	ELA.7.C.5.2	BEST	Use digital tools to produce and share writing.		Invasive Species	299
				Don't D	Life on the Edge	308
				Part B	The Global Climate	375
				Assessment	What's in a Label?	387
Language Arts	ELA.7.R.2.4	BEST	Track the development of an argument, analyzing the types of reasoning used and their effectiveness.	Part A	What's in a Label?	382

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A		247
				Part B	Exploration Energy!	241
				Assessment (Part A & Part B)		254
						280
				Assessment	the Boss	284
					Life on the Edge	308
			BEST  Integrate academic vocabulary appropriate to grade level in speaking and writing.	Part A	Nothing Succeeds Like Succession  Reduce, Reuse, Recycle	
Language Arts	ELA.7.V.1.1	BEST		Part B		334
Aits				Part C		
				Assessment		339
				Part B		356
				Assessment		362
				Part A		364
				Part B	Renewable or Not?	304
				Assessment		371
				Assessment	What's in a Label?	387
Language Arts	ELA.7.V.1.2	BEST	Apply knowledge of Greek and Latin roots and affixes to determine meanings of words and phrases in grade-level content.	Part A	Renewable or Not?	364

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number		
			Apply Impayled as of contact alvas figurative language would relationships		Invasive Species	299		
Language Arts	ELA.7.V.1.3	BEST	Apply knowledge of context clues, figurative language, word relationships, reference materials, and/or background knowledge to determine the connotative and denotative meaning of words and phrases, appropriate to grade level.	Part A	Renewable or Not?	364		
			and denotative inclaiming of words and pintases, appropriate to grade level.	Part B	The Global Climate	375		
					Global Goods	277		
Language Arts	ELA.8.C.1.2	BEST	Write personal or fictional narratives using narrative techniques, varied transitions, and a clearly established point of view.			Assessment	Nothing Succeeds Like Succession	339
		ELA.8.C.1.3 BEST	Write to argue a position, supporting at least one claim and rebutting at least one counterclaim with logical reasoning, credible evidence from sources, elaboration, and using a logical organizational structure.	Assessment	Environment al Justice for All	238		
Language Arts	ELA.8.C.1.3				Global Goods	277		
					The Global Climate	380		
				Part A	Energy Exploration!	247		
				Part B	Global Goods	272		
Language	ELA.8.C.1.4	BEST	Write expository texts to explain and analyze information from multiple sources, using relevant supporting details, logical organization, and varied purposeful		Invasive Species	299		
Arts	EEA.0.C.1.4	DLS1	transitions.	Part B	Life on the Edge	308		
				Assessment	Our Federal Forests	347		
				2 135035HICH	Plant a Tree	353		
Language Arts	ELA.8.C.1.5	BEST	Improve writing by planning, editing, considering feedback from adults and peers, and revising for clarity and cohesiveness.		Improve Your Place	293		

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Decisions, Decisions	224
				Part B	Environmental Justice for All	233
				Assessment		238
				Part A	Exploration Energy	247
					Field, Forest, and Stream	257
			Present information orally, in a logical sequence, supporting the central idea with credible evidence.	Assessment	Forest in the City	268
		BEST		Part B	Global Goods	272
Language Arts	ELA.8.C.2.1				If You Were the Boss	280
				Assessment		284
					Improve Your Place	293
				Assessment		296
					Invasive Species	299
				D ( D	Life on the Edge	308
				Part B	Living with Fire	315
				Part A	Nothing Succeeds Like Succession	334

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A	Our Federal Forests	342
					Reduce, Reuse, Recycle	356
				raitB	Renewable or Not?	364
Language Arts	ELA.8.C.2.1 – continued	BEST	Present information orally, in a logical sequence, supporting the central idea with credible evidence.	Part B	The Global	375
				Assessment (Part B)	Climate	380
				Part B	What's in a Label?	382
				Assessment		387
Language Arts	ELA.8.R.2.4	BEST	Track the development of an argument, analyzing the types of reasoning used and their effectiveness, identifying ways in which the argument could be improved.	Part B	Environmental Justice for All	233
				Part B	Environmental Justice for All	233
				Part A	Exploration Energy!	247
				Part B	Global Goods	272
Language	ELA.8.C.4.1	BEST	Conduct research to answer a question, drawing on multiple reliable and		Invasive Species	299
Arts	ELA.8.C.4.1	DEST	valid sources, and generating additional questions for further research.	Dout D	Life on the Edge	308
			Pa	Part B	Living with Fire	315
				Part A and Part B	Our Federal Forests	342
					Plant a Tree	350

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Assessment	Environmental Justice for All	238
				Part B	Life on the Edge	308
Language	ELA.8.C.5.1	BEST	Integrate diverse digital media to emphasize the relevance of a topic or idea in	Part B	Our Federal	342
Arts			oral or written tasks.	Assessment	Forests	347
					Plant a Tree	350
				Assessment		354
Language	EL A 9 C 5 2	BEST	Use a variety of digital tools to collaborate with others to produce writing.	Assessment (Part B)	Exploration Energy!	254
Arts	ELA.8.C.5.2	DEST	Ose a variety of digital tools to conaborate with others to produce withing.		Improve Your Place	293
Language Arts	ELA.8.R.2.4	BEST	Track the development of an argument, analyzing the types of reasoning used and their effectiveness, identifying ways in which the argument could be improved.	Part A	What's in a Label?	382
				Part A	Exploration Energy!  If You Were the Boss	247
				Part B		247
Language Arts	ELA.8.V.1.1	BEST	Integrate academic vocabulary appropriate to grade level in speaking and	Assessment (Part A & Part B)		254
Aits			writing.			280
				Assessment		284
					Life on the Edge	308

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part A, Part B, and Part C	Nothing Succeeds Like Succession	334
				Assessment		339
I	ELAOV11		Tuta and and and and and an analysis and a local in an abina and	Part B	Reduce,	356
Language Arts	ELA.8.V.1.1 - continued	BEST	Integrate academic vocabulary appropriate to grade level in speaking and writing.	Assessment	Reuse, Recycle	362
				Part A and Part B	Renewable or Not?	364
				Assessment		371
				Assessment	What's in a Label?	387
		BEST	Apply knowledge of context clues, figurative language, word relationships, reference materials, and/or background knowledge to determine the connotative and denotative meaning of words and phrases, appropriate to grade level.		Invasive Species	299
Language Arts	ELA.8.V.1.3			Part A	Renewable or Not?	364
				Part B	The Global Climate	375
			Mathematicians who participate in effortful learning both individually and with others:	Part B	Exploration Energy!	247
Mathematics	MA.K12.MTR.1.1	<ul> <li>Ask questions that will help v</li> <li>Build perseverance by modificate challenging task.</li> <li>Stay engaged and maintain a tasks.</li> </ul>	<ul> <li>Ask questions that will help with solving the task.</li> <li>Build perseverance by modifying methods as needed while solving a</li> </ul>		If You Were the Boss	280
			<ul> <li>Stay engaged and maintain a positive mindset when working to solve tasks.</li> <li>Help and support each other when attempting a new method or</li> </ul>		Nature's Skyscrapers	325

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Mathematics	MA.K12.MTR.2.1	BEST	Demonstrate understanding by representing problems in multiple ways.  Mathematicians who demonstrate understanding by representing problems in multiple ways:  • Build understanding through modeling and using manipulatives.  • Represent solutions to problems in multiple ways using objects, drawings, tables, graphs and equations.  • Progress from modeling problems with objects and drawings to using algorithms and equations.  • Express connections between concepts and representations.  • Choose a representation based on the given context or purpose.		Nature's Skyscrapers	325
Mathematics	MA.K12.MTR.3.1	BEST	Complete tasks with mathematical fluency.  Mathematicians who complete tasks with mathematical fluency:  • Select efficient and appropriate methods for solving problems within the given context.  • Maintain flexibility and accuracy while performing procedures and mental calculations.  • Complete tasks accurately and with confidence.  • Adapt procedures to apply them to a new context.  • Use feedback to improve efficiency when performing calculations.		Nature's Skyscrapers	325
			Engage in discussions that reflect on the mathematical thinking of self and others.			325
			Mathematicians who engage in discussions that reflect on the mathematical thinking of self and others:	3-5	Nature's Skyscrapers	329
Mathematics	MA.K12.MTR.4.1	12.MTR.4.1 BEST	<ul> <li>Communicate mathematical ideas, vocabulary and methods effectively.</li> <li>Analyze the mathematical thinking of others.</li> </ul>	Assessment		330
			<ul> <li>Compare the efficiency of a method to those expressed by others.</li> <li>Recognize errors and suggest how to correctly solve the task.</li> </ul>	Part A	The Global	375
			<ul> <li>Justify results by explaining methods and processes.</li> <li>Construct possible arguments based on evidence.</li> </ul>	Assessment	Climate	380

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Numbe r
			Use patterns and structure to help understand and connect mathematical concepts.  Mathematicians who use patterns and structure to help understand and connect	Part B	Renewable or Not?	364
Mathematics	matics MA.K12.MTR.5.1 BEST	BEST	<ul> <li>mathematical concepts:</li> <li>Focus on relevant details within a problem.</li> <li>Create plans and procedures to logically order events, steps or ideas to solve problems.</li> </ul>	Part A and Part B	The Global	375
		<ul> <li>Decompose a complex problem into manageable parts.</li> <li>Relate previously learned concepts to new concepts.</li> <li>Look for similarities among problems.</li> <li>Connect solutions of problems to more complicated large-scale situations.</li> </ul>	Assessment	Climate	380	
Mathematics	MA.K12.MTR.6.1	BEST	Assess the reasonableness of solutions.  Mathematicians who assess the reasonableness of solutions:  Estimate to discover possible solutions.  Use benchmark quantities to determine if a solution makes sense.  Check calculations when solving problems.  Verify possible solutions by explaining the methods used.  Evaluate results based on the given context.		Nature's Skyscrapers	325

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part B	Exploration Energy!	247
					Field, Forest,	275
				3-5	and Stream	261
					Forest in the City	265
			Apply mathematics to real-world contexts.		If You Were the Boss	280
	tics MA.K12.MTR.7.1 BEST		Mathematicians who apply mathematics to real-world contexts:  Connect mathematical concepts to everyday experiences.  Use models and methods to understand, represent and solve problems.  Perform investigations to gather data or determine if a method is appropriate.  Redesign models and methods to improve accuracy or efficiency.	3-5	Life on the Edge	311
Mathematics		BEST			Nature's Skyscrapers	325
				3-5	Plant a Tree	353
				Part A	Reduce, Reuse, Recycle	356
				Part B	Renewable or Not?	364
				Part A	The Global Climate	375
				Assessment (Part A)		380
Mathemetics	MA.3.DP.1.1	BEST	Collect and represent numerical and categorical data with whole-number values using tables, scaled pictographs, scaled bar graphs or line plots. Use appropriate titles, labels and units.	3-5	Decisions, Decisions	227
Mathematics	MA.3.M.1.1	BEST	Select and use appropriate tools to measure the length of an object, the volume of liquid within a beaker and temperature.	3-5	Nature's Skyscrapers	329
Mathematics	MA.4.M.1.1	BEST	Select and use appropriate tools to measure attributes of objects.	3-5	Nature's Skyscrapers	329
Mathematics	MA.5.DP.1.1	BEST	Collect and represent numerical data, including fractional and decimal values, using tables, line graphs or line plots.	3-5	Decisions, Decisions	227

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Mathematics	MA.6.AR.2.2	BEST	Write and solve one-step equations in one variable within a mathematical or real-world context using addition and subtraction, where all terms and solutions are integers.		Nature's Skyscrapers	325
Mathematics	MA.6.AR.2.3	BEST	Write and solve one-step equations in one variable within a mathematical or real-world context using multiplication and division, where all terms and solutions are integers.		Nature's Skyscrapers	325
Mathematics	MA.6.AR.3.1	BEST	Given a real-world context, write and interpret ratios to show the relative sizes of two quantities using appropriate notation: $a/b$ , a to b, or a:b where $b \neq 0$ .		Nature's Skyscrapers	325
Mathematics	MA.6.AR.3.4	BEST	Apply ratio relationships to solve mathematical and real-world problems		If You Were the Boss	280
Mathematics	<u>MA.0.AK.3.4</u>	DEST	involving percentages using the relationship between two quantities.		Nature's Skyscrapers	325
Mathematics	MA.6.AR.3.5	BEST	Solve mathematical and real-world problems involving ratios, rates and unit	Part B	Exploration Energy!	247
Mathematics	<u>MA.0.AK.3.3</u>	DEST	rates, including comparisons, mixtures, ratios of lengths and conversions within the same measurement system.		Nature's Skyscrapers	325
				Part B	Exploration Energy!	247
					Field, Forest, and Stream	257
Mathematics	MA.6.DP.1.1	BEST	Recognize and formulate a statistical question that would generate numerical data.		Forest in the City	265
					Nature's Skyscrapers	325
				Part A	The Global Climate	375
Mathematics	MA.6.DP.1.4	BEST	Given a histogram or line plot within a real-world context, qualitatively describe and interpret the spread and distribution of the data, including any symmetry,		Forest in the City	265
Maniemanes		DLST	skewness, gaps, clusters, outliers and the range.	Assessment		268
Mathematics	MA.6.DP.1.5	BEST	Create box plots and histograms to represent sets of numerical data within real-world contexts.		Forest in the City	265

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
				Part B	Exploration Energy!	247
Mathematics	MA.6.DP.1.6	BEST	Given a real-world scenario, determine and describe how changes in data values impact measures of center and variation.	Part A	The Global Climate	375
				Assessment (Part A)		380
Mathematics	MA.6.NSO.3.5	BEST	Rewrite positive rational numbers in different but equivalent forms including fractions, terminating decimals and percentages.	Part A	The Global Climate	375
Mathematics	MA.6.NSO.4.1	BEST	Apply and extend previous understandings of operations with whole numbers to add and subtract integers with procedural fluency.		If You Were the Boss	280
Mathematics	MA.6.NSO.4.2	BEST	Apply and extend previous understandings of operations with whole numbers to multiply and divide integers with procedural fluency.		If You Were the Boss	280
Mathematics	MA.7.AR.2.2	BEST	Write and solve two-step equations in one variable within a mathematical or real-world context, where all terms are rational numbers.		Nature's Skyscrapers	325
Mathematics	MA.7.AR.3.2	BEST	Apply previous understanding of ratios to solve real-world problems involving proportions.		Nature's Skyscrapers	325
		MA.7.AR.4.1 BEST	Determine whether two quantities have a proportional relationship by examining a table, graph or written description.		Field, Forest,	257
				Assessment	and Stream	262
Mathematics	MA.7.AR.4.1			Part A	Reduce, Reuse, Recycle	356
				Part A	The Global Climate	375
				Assessment		380
					Nature's Skyscrapers	325
Mathematics	Mathematics MA.7.AR.4.5	BEST	Solve real-world problems involving proportional relationships.	Part A	Reduce, Reuse, Recycle	356
Mathematics	MA.7.DP.1.1	BEST	Determine an appropriate measure of center or measure of variation to summarize numerical data, represented numerically or graphically, taking into consideration the context and any outliers.	Part B	Exploration Energy!	247

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
					Forest in the	265
N. d.	MA 7 DD 10	DEGE	Given two numerical or graphical representations of data, use the measure(s) of	Assessment	City	268
Mathematics	MA.7.DP.1.2	BEST	center and measure(s) of variability to make comparisons, interpret results and draw conclusions about the two populations.	Part A	The Global	375
				Assessment (Part A)	Climate	380
			Given categorical data from a random sample, use proportional relationships to make predictions about a population.		Field, Forest, and Stream	257
Mathematics	MA.7.DP.1.3	BEST		Part A	The Global Climate	375
				Assessment (Part A)		380
			Given a real-world numerical or categorical data set, choose and create an appropriate graphical representation.	Assessment	Field, Forest, and Stream	262
					Forest in the City	265
				Part B	Our Federal	342
Mathematics	MA.7.DP.1.5	BEST		Assessment	Forests	347
				Part A and Part B	Reduce, Reuse, Recycle	356
				Part A	The Global	375
				Assessment (Part A)	Climate	380
Mathematics	MA.7.DP.2.4	BEST	Use a simulation of a simple experiment to find experimental probabilities and compare them to theoretical probabilities.	Part B	Renewable or Not?	364
Mathematics	MA.7.GR.1.3	BEST	Explore the proportional relationship between circumferences and diameters of circles. Apply a formula for the circumference of a circle to solve mathematical and real-world problems.		Nature's Skyscrapers	325

Subject	Standard	Standard Type	Description	Variation/ Assessment	Activity	Page Number
Mathematics	MA.7.GR.1.5	BEST	Solve mathematical and real-world problems involving dimensions and areas of geometric figures, including scale drawings and scale factors.		If You Were the Boss	280
Mathematics	MA.7.NSO.2.3	BEST	Solve real-world problems involving any of the four operations with rational numbers.		If You Were the Boss	280
Mathematics	MA.7.AR.4.1	BEST	Determine whether two quantities have a proportional relationship by examining a table, graph or written description.		If You Were the Boss	280
Mathematics	MA.7.GR.1.5	BEST	Solve mathematical and real-world problems involving dimensions and areas of geometric figures, including scale drawings and scale factors.		If You Were the Boss	280
Mathematics	MA.7.NSO.1.2	BEST	Rewrite rational numbers in different but equivalent forms including fractions, mixed numbers, repeating decimals and percentages to solve mathematical and real-world problems.	Part A	The Global Climate	375
Mathematics	MA.7.NSO.2.1	BEST	Solve mathematical problems using multi-step order of operations with rational numbers including grouping symbols, whole-number exponents and absolute value.		Nature's Skyscrapers	325
Mathematics	MA.8.DP.1.1	BEST	Given a set of real-world bivariate numerical data, construct a scatter plot or a line graph as appropriate for the context.		Forest in the City	265
				Part A	The Global Climate	375
Mathematics	MA.8.F.1.1	BEST	Given a set of ordered pairs, a table, a graph or mapping diagram, determine whether the relationship is a function. Identify the domain and range of the relation.	Part A	The Global Climate	375