Foss correlations

The correlations contained within this chart were made using Minnesota Academic Standards and comparing activities that had similar student objectives and learner outcomes. Where possible, I have made direct links to FOSS lessons within each module. Where there were no distinct similarities between activities, I looked at the MN standards and made links that had general connections to the curriculum that could extend the learning opportunities provided by FOSS. There are also some specific focus recommendations for some of the PLT activities, for example: for the 3rd/4th grade measurements unit, the PLT activity #48 Field, Forest and Stream is recommended, focusing on the measurement opportunities in that PLT activity. Also, some PLT activities matched the FOSS modules very well, but were recommended for a different grade level. (See Kindergarten/Wood & Paper/Getting to Know Paper. The PLT activity #51 Make Your Own Paper is recommended for grades 1-8. With simple modifications, or perhaps the help of older student mentors, this activity meshes perfectly with the FOSS module.) There are also direct literature links between the FOSS Science Stories and the PLT recommended books. I have included these links in several places in the chart.

The different grades have been color coded for ease of usability: Kindergarten is green, $1^{st}/2^{nd}$ grade is red, $3^{rd}/4^{th}$ grade is purple, and $5^{th}/6^{th}$ grade is blue. The FOSS modules are listed in the yellow column, and the PLT activities are in the orange column.

Grade/	FOSS Module	Investigation	PLT Activity	MN Science Standards
Strand				Benchmarks
3 rd /4 th Life Science	Human Body	Bones	Structure and form: #61 The Closer You Look Extension: Health and Nutrition: #16: Pass the Plants, Please Part A	Science: 3 rd Grade: IV, B, 1: 1Ddescribe the structures that serve different functions in growth, survival and reproduction for plants and animals. 2: Know that plants have different structures from animals that serve the same necessary functions in growth, survival and reproduction. 4 th Grade: IV, B, 1: Classify plants and animals according to their physical characteristics. 2: Learn that the characteristics used for grouping depend on the purpose of the grouping. Social Studies K-3: VI, B, 1: Classify plants and animals according to their physical characteristics. 2: Learn that the characteristics used for grouping depend on the purpose of the grouping. Social Studies K-3: VI, B, 1: 2: Recognize and explain that natural resources, human resources, and human-made resources are used in the production of goods and services. Language Arts: 3 rd Grade: I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading. I, C, 2: Recall and use prior learning and preview text, using title, headings and illustrations, to prepare for reading. 3: Generate and answer literal, inferential, interpretive and evaluative questions to demonstrate understanding about what is read. 4: Retell, restate or summarize information orally, in writing, and through graphic organizers. III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups. 2: Demonstrate active listening and preview text to prepare for reading. 3: Generate and answer literal, inferential, interpretive and evaluative questions about what is read to demonstrate understanding. 7: Demonstrate relationships between ideas or events in the texts using graphic organizers. 9: Follow multi-step written instructions. 10: Compare and contrast information on the same topic from two sources. 11: A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups. 2: Demonstrate active listening and c
				4 th Grade:
3 rd /4 th Life Science	Human Body	Coordination	Senses & Stimuli: #1: The Shape of Things #2: Get in Touch With Trees #3 Peppermint Beetle #4 Sounds Around	 IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling. Science: 3rd Grade: II, C, 1: Investigate how sounds are made when objects vibrate. IV, B, 1: Describe the structures that serve different functions in growth, survival and reproduction for plants and animals. 2: Know that plants have different structures from animals that serve the same necessary functions in growth, survival and reproduction. IV, C, 1: Know that organisms interact with one another in various ways besides providing food. 2: Know that changes in a habitat can be beneficial or harmful to an organism. Social Studies K-3: V, A: 1: Use cardinal and intermediate directions to locate places. V, B, 1: 1: Locate places by using simple maps, and understand that maps are drawings of locations and places as viewed from above. 3: Create and interpret simple maps using the map elements of title, direction, symbols, and a map key or legend.

			VII, A, 1: Demonstrate knowledge of civic values that facilitate thoughtful and effective participation in civic life.
$3^{rd}/4^{th}$	Human Body	Coordination	4-8:
Life Science			V, D, 1: 2: Provide examples at differing scales of how regions are important to people as symbols for unifying society.
			Language Arts:
			3 rd Grade:
			I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
			I, C, 4: Retell, restate or summarize information orally, in writing, and through graphic organizers.
			I, D, 1: Read from and listen to American literature, as well as literature from other countries.
			2: Identify, describe and respond to literary elements of characterization, plot, setting and theme.
			3: Identify and describe patterns of sounds such as rhyme and rhythm in poetry.
			6: Identify and determine the meanings of similes and metaphors.
			7: Critically read and examine text to determine author's purpose.
			8: Respond to literature using ideas and details from the text to support reactions and make literary connections.
			9: Read from and respond to a variety of fiction, poetic and nonfictions texts of increasing complexity for personal
			enjoyment.
			II, A, 1: Write in a variety of modes to express meaning, including: descriptive, narrative, informative, friendly letter
			and poetic.
			II, B, 1: Write a paragraph that includes: an indented or block style of paragraph, a topic sentence, 3-5 supporting
			sentences and a concluding sentence.
			3: Use verbalization to prepare for writing.
			III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
			2: Demonstrate active listening and comprehension.
			3: Follow multi-step oral directions.
			4: Give oral presentations to different audiences for different purposes.
			5: Organize and express ideas sequentially or according to major points.
			4 th Grade:
			I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
			I, C, 1: Read aloud grade-appropriate text with accuracy and comprehension.
			3: Generate and answer literal, inferential, interpretive and evaluative questions about what is read to demonstrate
			understanding.
			4: Summarize and paraphrase what is read.
			5: Infer and identify main idea and determine relevant details in non-fiction text.
			6: Distinguish fact from opinion, determine cause and effect, and draw conclusions.
			7: Demonstrate relationships between ideas or events in the texts using graphic organizers.
			8: Monitor comprehensions, notice when reading breaks down and use strategies to self-correct.9: Follow multi-step written instructions.
			I, D, 1: Read and respond to a variety of high quality, traditional, classical and contemporary literary works specific to
			America, as well as significant works from other countries.
			2: Identify, respond to, and compare and contrast the literary elements of characterization, plot, setting and theme.
			7: Identify and determine the meanings of similes and metaphors.
			8: Critically read and evaluate text to determine author's purpose and point of view.
			9: Respond to literature using ideas and details from the text to support reactions and make literary connections.
			10: Read from and respond to a variety of fiction, poetic and nonfiction texts of increasing complexity for personal
			enjoyment.
			II, A, 1: Write in a variety of styles to express meaning including: descriptive, narrative, informative, friendly letter,
			poetic, persuasive, and thank you note.
			II, B, 4: Create informative reports; including gathering material, formulating ideas based on gathered material,
			organizing information, and editing for logical progression.

				5: Use verbalization to prepare for writing.
3 rd /4 th	Human Body	Coordination		
Life Science	Human Douy	Coordination		6: Consider audience in composing texts.
2				II, D, 1: Locate information in various reference materials including dictionaries, online dictionaries, glossaries,
				encyclopedias and the Internet.
				II, E, 1: Write legibly in both print and cursive.
				III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
				2: Demonstrate active listening and comprehension.
				3: Give oral presentations to different audiences for different purposes.
				4: Organize and summarize ideas, using evidence to support opinions or main ideas.
				Mathematics:
				3 rd Grade:
				IV, A, 1: Read and interpret data from circle graphs using halves, thirds and quarters.
				2: Collect data using observations or surveys and represent the data with pictographs and line plots with appropriate title
				and key.
				V, B, 1: Identify, describe and classify two-dimensional shapes according to number and length of sides and kinds of
				angles.
				2: Identify common two and three-dimensional shapes that are components of more complex shapes.
				4 th Grade:
3 rd /4 th				IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling.
J ¹⁷ /4 ¹¹ Life Science	Structures of Life	Origin of Seeds	#16: Pass the Plants,	Science: 3 rd Grade:
Life Science	Life	Seeds	Please	IV, B, 1: Describe the structures that serve different functions in growth, survival and reproduction for plants and
			# 43: Have Seeds Will	animals.
			Travel	Language Arts:
				3rd Grade:
				I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
				4 th Grade:
				I, C, 2: Recall and use prior learning and preview text to prepare for reading.
				7: Demonstrate relationships between ideas or events in the texts using graphic organizers.
				9: Follow multi-step directions.
				III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups. 2: Demonstrate active listening and comprehension.
				Mathematics:
				3 rd Grade:
				IV, A, 1: Read and interpret data from circle graphs using halves, thirds and quarters.
				2: Collect data using observations or surveys and represent the data with pictographs and line plots with appropriate title
				and key.
				4 th Grade:
				IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling.
3 rd /4 th	Structures of	Growing	#31: Plant A Tree	Science:
Life Science	Life	Further	#41. How Plants Ca	3 rd Grade:
			#41: How Plants Grow	I, B, 1: 1: Ask questions about the natural world that can be investigated scientifically
			#42: Sunlight and	2: The student will participate in a scientific investigation using appropriate tools. IV, B, 1: 1: Describe the structures that serve different functions in growth, survival and reproduction for plants and
			Shades of Green	animals.
				2: Know that plants have different structures from animals that serve the same necessary functions in growth, survival
			# 66: Germinating	and reproduction.
			Giants	IV, C, 1: Know that organisms interact with one another in various ways besides providing food.
				2: Know that changes in a habitat can be beneficial or harmful to an organism.
			#70: Soil Stories: Part	Language Arts:
			Α	3 rd Grade:
			#70 The L 10	I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
			#79 Tree Lifecycle	I, C, 3: Generate and answer literal, inferential, interpretive and evaluative questions to demonstrate understanding

		1	
ard (th			about what is read.
3 rd /4 th	Structures of	Growing	4: Retell, restate or summarize information orally, in writing, and through graphic organizers.
Life Science	Life	Further	I, D, 2: Identify, describe and respond to literary elements of characterization, plot, setting and theme.
			II, A, 1: Write in a variety of modes to express meaning, including: descriptive, narrative, informative, friendly letter
			and poetic.
			II, B, 1: Write a paragraph that includes" and indented or block style of paragraph, a topic sentence, 3-5 supporting
			sentences and a concluding sentence.
			2: Use composing processes, including: prewriting-planning strategies such as brainstorming, journaling, sketching,
			listing, outlining and determining audience, purpose and focus, drafting-organizing, supporting and putting ideas into
			sentences and paragraphs, revising- improving the quality of content, organization, sentence structure and word choice,
			editing-correcting errors in spelling and grammar, publishing-producing a document and sharing the writing with the
			audience.
			3: Uses verbalization to prepare for writing.
			II, D, 1: Use grade level appropriate reference materials to obtain information from dictionaries, glossaries,
			encyclopedias and the Internet.
			II, E, 1: Write legibly, allowing margins and correct spacing between letters in a word and words in a sentence.
			III, A 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
			2: Demonstrate active listening and comprehension.
			3: Follow multi-step oral directions.
			4: Give oral presentations to different audiences for different purposes.
			5: Organize and express ideas sequentially or according to major points.
			4 th Grade:
			I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
			I, C, 2: Recall and use prior learning and preview text to prepare for reading.
			4: Summarize and paraphrase what is read.
			7: Demonstrate relationships between ideas or events in the texts using graphic organizers.
			9: Follow multi-step written instructions.
			10: Compare and contrast information on the same topic from two sources.
			I, D, 8: Critically read and evaluate text to determine author's purpose and point of view.
			9: Respond to literature using ideas and details from the text to support reactions and make literary connections.
			II, A, 1: Write in a variety of styles to express meaning, including: descriptive, narrative, informative, friendly letter,
			poetic, persuasive and thank you note.
			II, B, 4: Create informative reports; including gathering material, formulating ideas based on gathered material,
			organizing information, and editing for logical progression.
			5: Use verbalization to prepare for writing.
			II, C, 1: Compose complete sentences when writing.
			II, D, 1: Locate information in various reference materials, including dictionaries, online dictionaries, glossaries,
			encyclopedias and the Internet.
			II, E, 1: Write legibly in both print and cursive.
			2: Apply basic keyboarding skills.
			III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
			2: Demonstrate active listening and comprehension.
			3: Give oral presentations to different audiences for different purposes.
			4: Organize and summarize ideas, using evidence to support opinions or main ideas.
			5: Perform expressive oral readings of prose, poetry or drama.
			III, C, 1: Read print, view pictures and video images and listen to audio files and identify distinctions in how
			information is presented in print and non-print materials.
			3: Use print, pictures, audio and video to express ideas and knowledge gleaned from these sources.
			Mathematics:
			4 th Grade:
			II, A, 3: Use fractions and decimals to solve problems representing parts of a whole, parts of a set and division of whole
			numbers by whole numbers in real world and mathematical problems.
			II, B, 5: Use multiplication and division of whole numbers to solve simple real world and mathematical problems.
			IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling.
			V, C, 1: Find the area and perimeter of a rectangle by measuring, using a grid, or using a formula, and label the answer
			v, C, 1: Find the area and perimeter of a rectangle by measuring, using a grid, or using a formula, and label the answer

		a i		with appropriate units.
		Growing		2: Understand that rectangles with the same area can have different perimeters and that rectangles with the same
ard with		Further		perimeter can have different areas.
3 rd /4 th	Structures of	Meet the	# 6 Picture This!	Science:
Life Science	Life	crayfish		3 rd Grade:
			#7 Habitat Pen Pals	IV, B, 1: Describe the structures that serve different functions in growth, survival and reproduction for plants and
			# 66 F	animals.
			# 22: Trees as	2: Know that plants have different structures from animals that serve the same necessary functions in growth, survival
			Habitats: Part B and	and reproduction
			variation	IV, C, 1: Know that organisms interact with one another in various ways besides providing food.
			# 45. Web -61 :6-	2: Know that changes in a habitat can be beneficial or harmful to an organism. 4 th Grade:
			# 45: Web of Life	
			# 49. Etald Easter and	III, A, 1: Identify and investigate environmental issues and potential solutions.
			#48: Field Forest and	IV, B, 1: Classify plants and animals according to their physical characteristics.
			Stream	2: Learn that the characteristics used for grouping depend on the purpose of the grouping.
			#99. Life and he Edge	Language Arts: 3 rd Grade:
			#88: Life on the Edge	
				I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading. I, C, 4: Retell, restate or summarize information orally, in writing, and through graphic organizers.
				II, A, 1: Write in a variety of modes to express meaning, including: descriptive, narrative, informative, friendly letter
				and poetic.
				II, B, 1: Write a paragraph that includes" and indented or block style of paragraph, a topic sentence, 3-5 supporting
				sentences and a concluding sentence.
				II, C, 1: Compose complete sentences.
				2: Recognize and correct spelling errors when writing.
				3: Spell correctly one-syllable and two-syllable words that have blends, contractions and compounds.
				II, E, 1: Write legibly, allowing margins and correct spacing between letters in a word and words in a sentence.
				III, A 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
				2: Demonstrate active listening and comprehension.
				3: Follow multi-step oral directions.
				4: Give oral presentations to different audiences for different purposes.
				5: Organize and express ideas sequentially or according to major points.
				6: Perform expressive oral reading of prose, poetry or drama. 4 th Grade:
				I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading. I, C, 1: Read aloud grade appropriate text with accuracy and comprehension.
				3: Generate and answer literal, inferential, interpretive and evaluative questions about what is read to demonstrate understanding.
				4: Summarize and paraphrase what is read.
				7: Demonstrate relationships between ideas or events in the texts using graphic organizers.
				9: Follow multi-step written instructions.
				II, A, 1: Write in a variety of styles to express meaning, including: descriptive, narrative, informative, friendly letter,
				poetic, persuasive and thank you note.
				II, B, 1: Write topic sentences.
				4: Create informative reports; including gathering material, formulating ideas based on gathered material, organizing
				information, and editing for logical progression.
				5: Use verbalization to prepare for writing.
				6: Consider audience in composing texts.
				I, C, 1: Compose complete sentences when writing.
				II, D, 1: Locate information in various reference materials including dictionaries, online dictionaries, glossaries,
				encyclopedias, and the Internet.
				II, E, 1: Write legibly in both print and cursive.
				III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
				2: Demonstrate active listening and comprehension.
				3: Give oral presentations to different audiences for different purposes.
				s. Give one presentations to universe and university purposes.

ard (th				4: Organize and summarize ideas, using evidence to support opinions or main ideas.
$3^{rd}/4^{th}$	Structures of	Meet the		5: Perform expressive oral readings of prose, poetry or drama.
Life Science	Life	crayfish		III, C, 1: Read print, view pictures and video images and listen to audio files and identify distinctions in how
				information is presented in print and non-print materials.
				2: Begin to make informed judgments about messages promoted in the media, such as those in film, television, radio
				and newspapers.
				Mathematics:
				3 rd Grade:
				IV, A, 1: Read and interpret data from circle graphs using halves, thirds and quarters.
				2: Collect data using observations or surveys and represent the data with pictographs and line plots with appropriate title
				and key.
				4 th Grade:
				IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling.
3 rd /4 th	Ct and a second	M		
	Structures of	Meet the	#8 The Forest of S.T.	Science:
Life Science	Life	Land Snail	Shrew	3 rd Grade:
		OR		I, A, 1: Explore the use of science as a tool that can help investigate and answer questions about the environment.
		Bess Beetles	# 9: Planet Diversity	I, B, 1: Ask questions about the natural world that can be investigated scientifically
				2: Participate in a scientific investigation using appropriate tools.
			#11: Can It Be Real?	IV, B, 1: Describe the structures that serve different functions in growth, survival and reproduction for plants and
				animals.
			# 23: The Fallen Log	2: Know that plants have different structures from animals that serve the same necessary functions in growth, survival
				and reproduction
			#24: Nature's	IV, C, 1: Know that organisms interact with one another in various ways besides providing food.
			Recyclers	2: Know that changes in a habitat can be beneficial or harmful to an organism.
				Language Arts:
			#46: School Yard	3 rd Grade:
			Safari	I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
				3: Use context and word structure to determine the meaning of unfamiliar words.
				I, C, 3: Generate and answer literal, inferential, interpretive and evaluative questions to demonstrate understanding
			# 47: Are Vacant Lots	about what is read.
			Vacant?	4: Retell, restate or summarize information orally, in writing, and through graphic organizers.
				7: Follow three-step written directions.
				I, D, 1: Read from and listen to American literature, as well as literature from other countries.
				2: Identify, describe and respond to literary elements of characterization, plot, setting and theme.
				7: Critically read, and examine text to determine author's purpose.
				8: Respond to literature using ideas and details from the text to support reactions and make literary connections.
				9: Read from and respond to a variety of fiction, poetic and nonfiction texts of increasing complexity for personal
				enjoyment.
				II, B, 3: Use verbalization to prepare for writing.
				III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
				2: Demonstrate active listening and comprehension.
				3: Follow multi-step oral directions.
				5: Organize and express ideas sequentially or according to major points.
				4 th Grade:
				I, A, 1: Read unfamiliar complex and multi-syllabic words using advanced phonetic and structural analysis in grade
				appropriate text.
				2: Read aloud narrative and expository text with fluency, accuracy, and appropriate pacing, intonation and expression.
				I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
				3: Use dictionaries or glossaries to find meaning of new words.
				4: Use context and word structure to determine word meanings.
				I, C, 1: Read aloud grade appropriate text with accuracy and comprehension.
				3: Generate and answer literal, inferential, interpretive and evaluative questions about what is read to demonstrate
				understanding.
				4: Summarize and paraphrase what is read.
				5: Infer and identify main idea and determine relevant details in non-fiction text.

		-		
ard oth				6: Distinguish fact from opinion, determine cause and effect, and draw conclusions.
3 rd /4 th	Structures of	Meet the		7: Demonstrate relationships between ideas or events in the texts using graphic organizers.
Life Science	Life	Land Snail		8: Monitor comprehension, notice when reading breaks down and use strategies to self-correct.
		OR		9: Follow multi-step written instructions.
		Bess Beetles		10: Compare and contrast information on the same topic from two sources.
				I, D, 2: Identify, respond to, and compare and contrast the literary elements of characterization, plot, setting and theme
				8: Critically read and evaluate text to determine author's purpose and point of view.
				9: Respond to literature using ideas and details from the text to support reactions and make literary connections.
				10: Read from and respond to a variety of fiction, poetic and nonfiction texts of increasing complexity for personal
				enjoyment.
				II, A, 1: Write in a variety of styles to express meaning, including: descriptive, narrative, informative, friendly letter,
				poetic, persuasive and thank you note.
				II, B, 4: Create informative reports; including gathering material, formulating ideas based on gathered material,
				organizing information, and editing for logical progression.
				5: Use verbalization to prepare for writing.
				6: Consider audience in composing texts.
				II, D, 1: Locate information in various reference materials including dictionaries, online dictionaries, glossaries,
				encyclopedias and the Internet.
				III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
				2: Demonstrate active listening and comprehension.
				3: Give oral presentations to different audiences for different purposes.
				4: Organize and summarize ideas, using evidence to support opinions or main ideas.
				5: Perform expressive oral readings of prose, poetry or drama.
				III, C, 3: Use print, pictures, audio and video to express ideas and knowledge gleaned from these sources.
				Mathematics:
				4 th Grade:
				IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling.
3 rd /4th	Magnetism	General	Electricity extensions:	Social Studies 4-8:
Physical	and	Connections	#39: Energy Sleuths	VI, A, 1: 1: Compare and contrast the roles of producers and consumers.
Science	Electricity	to curriculum	Parts B and C	2: Explain that in market economies, individuals earn income by working for firms to produce goods and services, and
	, i i i i i i i i i i i i i i i i i i i			firms incur costs by hiring individuals and earn revenue by selling goods and services.
				3: Explain how a market economy answers the questions of what gets produced, how it is produced, and who receives it,
				and how it differs from other economic systems.
				4: Explain that a market exists when consumers buy and producers sell goods and services.
				5: Explain how the price of a good is determined by supply and demand (the interrelationship between production and
				consumption).
				VI, B, 1: 1: Understand the concept of scarcity and its role in decision-making.
				2: Apply a decision-making process to make informed choices.
				3: Analyze how people respond predictably to positive and negative economic incentives.
$3^{\rm rd}/4^{\rm th}$	Physics of	General	#4 Sounds Around	Science:
Physical	Sound	connections	Part B Part C	3 rd Grade:
Science		to curriculum	(modified for grade	II, C, 1: Investigate how sounds are made when objects vibrate.
			level)	IV, C, 1: Know that organisms interact with one another in various ways besides providing food.
				2: Know that changes in a habitat can be beneficial or harmful to an organism.
			# 36: Pollution Search	Social Studies 4-8:
			(focus on noise	V, D, 1: Analyze the way peoples' perception of regions vary and are affected by individual perspective and culture.
			pollution-fits in nicely	2: Provide examples at differing scales of how regions are important to people as symbols for unifying society.
			with Part C above)	VI, B, 1: Understand the concept of scarcity and its role in decision-making.
				2: Apply a decision-making process to make informed choices.
				Language Arts:
				3 rd Grade:
				I, B, 3: Use context and word structure to determine the meaning of unfamiliar words.
				I, C, 4: Retell, restate or summarize information orally, in writing, and through graphic organizers.

			I, D, 1: Read from and listen to American literature, as well as literature from other countries.
$3^{rd}/4^{th}$	Physics of	General	2: Identify, describe and respond to literary elements of characterization, plot, setting and theme.
Physical	Sound	connections	3: Identify and describe patterns of sounds such as rhyme and rhythm in poetry.
Science		to curriculum	6: Identify and determine the meanings of similes and metaphors.
			7: Critically read, and examine text to determine author's purpose.
			8: Respond to literature using ideas and details from the text to support reactions and make literary connections.
			9: Read from and respond to a variety of fiction, poetic and nonfiction texts of increasing complexity for personal
			enjoyment.
			II, A, 2: Write in a variety of modes to express meaning, including: descriptive, narrative, informative, friendly letter
			and poetic.
			II, B, 1: Write a paragraph that includes" and indented or block style of paragraph, a topic sentence, 3-5 supporting
			sentences and a concluding sentence.
			3: Use verbalization to prepare for writing.
			III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
			2: Demonstrate active listening and comprehension.
			4 th Grade:
			I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
			I, C, 1: Read Aloud grade appropriate text with accuracy and comprehension.
			3: Generate and answer literal, inferential, interpretive and evaluative questions about what is read to demonstrate
			understanding.
			4: Summarize and paraphrase what is read.
			5: Infer and identify main idea and determine relevant details in non-fiction text.
			6: Distinguish fact from opinion, determine cause and effect, and draw conclusions.
			7: Demonstrate relationships between ideas or events in the texts using graphic organizers.
			8: Monitor comprehension, notice when reading breaks down and use strategies to self-correct.
			I, D, 1: Read and respond to a variety of high quality, traditional, classical and contemporary literary works specific to
			America, as well as significant works from other countries.
			2: Identify, respond to, and compare and contrast the literary elements of characterization, plot, setting and theme.
			7: Identify and determine the meanings of similes and metaphors.
			8: Critically read and evaluate text to determine author's purpose and point of view.
			9: Respond to literature using ideas and details from the text to support reactions and make literary connections.
			10: Read from and respond to a variety of fiction, poetic and nonfiction texts of increasing complexity for personal
			enjoyment.
			II, A, 1: Write in a variety of styles to express meaning, including: descriptive, narrative, informative, friendly letter,
			poetic, persuasive and thank you note.
			II, B, 4: Create informative reports; including gathering material, formulating ideas based on gathered material,
			organizing information, and editing for logical progression.
			5: Use verbalization to prepare for writing.
			6: Consider audience in composing texts.
			II, E, 1: Write legibly in both print and cursive.
			III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
			2: Demonstrate active listening and comprehension.
			3: Give oral presentations to different audiences for different purposes.
			5: Perform expressive oral readings of prose, poetry or drama.
			Mathematics:
			3 rd Grade:
			IV, A, 1: Read and interpret data from circle graphs using halves, thirds and quarters.
			2: Collect data using observations or surveys and represent the data with pictographs and line plots with appropriate title
			and key.

3 rd /4 th	Physics of	General		4 th Grade:
Physical	Sound	connections		II, B, 1: Use addition and subtraction of multi-digit whole numbers to solve multi-step real world and mathematical
Science		to curriculum		problems.
				IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling.
3 rd /4th	Water	Water Vapor	#44 Water Wonders	Science:
Earth	Water	water vapor		4 th Grade:
Science				III, B, 1: Describe the water cycle involving the processes of evaporation, condensation, precipitation and collection.
~				2: Identify where water exists on Earth.
				Language Arts:
				4 th Grade:
				I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
				4: Use context and word structure to determine word meanings.
				5: Use knowledge of prefixes and suffixes to determine the meaning of unknown words.
				I, C, 3: Generate and answer literal, inferential, interpretive and evaluative questions about what is read to demonstrate understanding.
				7: Demonstrate relationships between ideas or events in the texts using graphic organizers.
				9: Follow multi-step written instructions.
				II, A, 1: Write in a variety of styles to express meaning, including: descriptive, narrative, informative, friendly letter,
				poetic, persuasive and thank you note.
				II, B, 4: Create informative reports; including gathering material, formulating ideas based on gathered material,
				organizing information, and editing for logical progression.
				III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
				2: Demonstrate active listening and comprehension.5: Perform expressive oral readings of prose, poetry or drama.
3 rd /4th	Water	Water Works	#14: Renewable or not	Science:
Earth	Water	water works		3 rd Grade:
Science			#36: Pollution Search:	IV, C, 1: Know that organisms interact with one another in various ways besides providing food.
			Part A	2: Know that changes in a habitat can be beneficial or harmful to an organism.
				4 th Grade:
			#38: Every Drop	III, A, 1: Identify and investigate environmental issues and potential solutions.
			Counts	III, B, 1: Describe the water cycle involving the processes of evaporation, condensation, precipitation and collection.
			#48: Field Forest and	2: Identify where water exists on Earth. Social Studies 4-8:
			Stream (focus on	VI, B, 1: Understand the concept of scarcity and its role in decision-making.
			water environments)	2: Apply a decision-making process to make informed choices.
				3: Analyze how people respond predictably to positive and negative economic incentives.
				Mathematics:
				3 rd Grade:
				IV, A, 1: Read and interpret data from circle graphs using halves, thirds and quarters.
				2: Collect data using observations or surveys and represent the data with pictographs and line plots with appropriate title
				and key. 4 th Grade:
				4 th Grade: IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling.
3 rd /4th	Earth	General	Geology:	Science:
Earth	Materials	connections	#14: Renewable or	3 rd Grade:
Science		to curriculum	Not?	IV, C, 1: 1: Know that organisms interact with one another in various ways besides providing food.
				2: Know that changes in a habitat can be beneficial or harmful to an organism.
			#48 Field, Forest and	4 th grade:
			Stream (focus on	III, A, 1: Identify and investigate environmental issues and potential solutions.
			rocks and minerals)	Social Studies 4-8: V, C, 4: 2: Describe physical systems in the atmosphere and Earth's crust, and the regional patterns of climate and
			#52 A Look At	and forms associated with them.
			Aluminum (modified	3: Describe patterns of vegetation and landforms in the United States and around the world.
			for grade level)	5. Describe patterns of vegetation and fandrorms in the Onned States and around the world.

				V, D, 1: 1: Identify factors that drew people to their local communities.
3 rd /4th	Earth	General	#70 Soil Stories	2: Analyze how the physical environment influences human activities.
Earth	Materials	connections	Minerals and Mining:	VII, A, 4: 3: Identify and research community problems and recommend solutions.
Science		to curriculum	U U	Mathematics:
			#82: Resource Go	4 th Grade:
			Round	IV, A, 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling.
$3^{rd}/4^{th}$	Ideas and	Rubbings	#2: Get In Touch With	Science:
Earth	Inventions		Trees	3 rd Grade:
Science				IV, B, 1: Describe the structures that serve different functions in growth, survival and reproduction for plants and
			# 21: Adopt a Tree	animals.
			# 51 Make Your Own	2: Know that plants have different structures from animals that serve the same necessary functions in growth, survival and reproduction.
			Paper	4 th grade:
			- up of	IV, B, 1: Classify plants and animals according to their physical characteristics.
				2: Learn that the characteristics used for grouping depend on the purpose of the grouping.
			#61: The Closer You	Social Studies K-3:
			Look	VI, B, 1: Distinguish between producers and consumers and between goods and services.
			HCA. Tool Second	2: Recognize and explain that natural resources, human resources, and human-made resources are used in the production
			#64: Looking at Leaves	of goods and services.
			Leaves	4-8:
			#68 Name That Tree	V, C, 4: 2: Describe physical systems in the atmosphere and Earth's crust, and the regional patterns of climate and
				landforms associated with them.
			#70: Soil Stories	3: Describe patterns of vegetation and landforms in the United States and around the world.
				V, D, 1: 1: Identify factors that drew people to their local communities.
				2: Analyze how the physical environment influences human activities. Language Arts:
				3 rd Grade:
				I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
				I, C, 2: Recall and use prior learning and preview text, using title, headings and illustration, to prepare for reading.
				3: Generate and answer literal, inferential, interpretive and evaluative questions to demonstrate understanding about
				what is read.
				4: Retell, restate or summarize information orally, in writing, and through graphic organizers. II, A, 1: Write a in a variety of modes to express meaning, including: descriptive, narrative, informative, friendly letter
				and poetic.
				II, B, 3: Uses verbalization to prepare for writing.
				II, D, 1: Locate information in various reference materials including dictionaries, online dictionaries, glossaries,
				encyclopedias and the Internet.
				III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups.
				2: Demonstrate active listening and comprehension.
				3: Follow multi-step oral directions.4: Give oral presentations to different audiences for different purposes.
				4. Give oral presentations to different addrences for different purposes. 4 th Grade:
				I, B, 1: Acquire, understand and use new vocabulary through explicit instruction and independent reading.
				I, C, 7: Demonstrate relationships between ideas or events in the texts using graphic organizers.
				9: Follow multi-step written instructions.
				10: Compare and contrast information on the same topic from two sources. II, A, 1: Write in a variety of styles to express meaning, including: descriptive, narrative, informative, friendly letter,
				n, A, 1: write in a variety of styles to express meaning, including: descriptive, narrative, informative, friendly letter, poetic, persuasive and thank you note.
				II, B, 3: Using composing processes, including: prewriting – planning strategies such as brainstorming, journaling,
				sketching, listing, outlining and determining audience, purpose and focus; drafting – organizing, supporting and putting
				ideas into sentences and paragraphs; revising - improving the quality of content, organization, sentence structure and
				word choice; editing- correcting errors in spelling and grammar; publishing - producing a document and sharing the
				writing with the audience.
				4: Create informative reports; including gathering material, formulating ideas based on gathered material, organizing

3 rd /4 th Earth Science 3rd/4 th	Ideas and Inventions Measurements	Rubbings General	#41: How Plants Grow	 information, and editing for logical progression. 5: Uses verbalization to prepare for writing. II, C, 1: Compose complete sentences when writing. II, D, 1: Locate information in carious reference materials including dictionaries, online dictionaries, glossaries, encyclopedias and the Internet. II, E, 1: Write legibly in both print and cursive. III, A, 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups. 2: Demonstrate active listening and comprehension. 3: Give oral presentations to different audiences for different purposes. 4: Organize and summarize ideas, using evidence to support opinions or main idea.
Technology and reasoning		connections to curriculum	 #48: Field, Forest and Stream (Focus on measurement and data collection) #66 Germinating Giants #67 How Big is Your Tree? #70 Soil Stories 	 Jardinet: J. Ask questions about the natural world that can be investigated scientifically. 2: Participate in a scientific investigation using appropriate tools. 3: Know that scientifics use different kinds of investigations depending on the questions they are trying to answer. IV, B. 1: Describe structures that serve different functions in growth, survival and reproduction for plants have different structures from animals that serve the same necessary functions in growth, survival and reproduction. IV, C. 1: Know that plants have different structures from animals that serve the same necessary functions in growth, survival and reproduction. IV, C. 1: Know that changes in a habitat can be beneficial or harmful to an organism. Science: 4th Grade: III, A. 1: Identify and investigate environmental issues and potential solutions. Social Studies: 4.8: V, C. 4: 2: Describe physical systems in the atmosphere and Earth's crust, and the regional patterns of climate and landforms associated with them. 3: Describe patterns of vegetation and landforms in the United States and around the world. V, D. 1: 2: Analyze how the physical environment influences human activities. Language Arts: 4th Grade: I. C. 7: Demonstrate relationships between ideas or events in the texts using graphic organizers. III, A. 1: Participate in and follow agreed-upon rules for conversation and formal discussions in large and small groups. 2: Demonstrate active listening and comprehension. Mathematics: 4th Grade: I. A. 3: Use fractions and decimals to solve problems representing parts of a whole, parts of a set and division of whole numbers by whole numbers in real world and mathematical problems. IV, A. 1: Collect data using observations or surveys and represent the data with tables and graphs with labeling. IV, A. 1: Collec