

5th Integrated Language Arts and Science Thematic Units

Unit 1	Big Idea	Science	Literacy (Reading and Writing)	Strategies	WIDA Standards
Earth's Systems	I want my students to understand that water is distributed on the Earth in a variety of reservoirs	5-ESS2-2. Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.	RI.5.4 Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area. RI.5.7 Draw on information from multiple print or digital sources, demonstrating the ability to <u>locate an answer to a question quickly</u> or to solve a problem efficiently. W.5.2 Write informative/explanatory texts to examine a topic and <u>convey ideas and information clearly</u>.	Primary Reading Locate information quickly Primary Writing Use precise, domain-specific language	Seek Information Inform Classify ideas

Unit 2	Big Idea	Science	Literacy (Reading and Writing)	Strategies	WIDA Standards
Earth's Systems	I want my students to understand that the Earth's resources and environments are created by the interaction of the Earth's spheres	5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. 5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.	RI.5.4 Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area. RI.5.7 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. W.5.2 Write informative/explanatory texts to examine a topic and convey ideas and information clearly.	Primary Reading using multiple sources to find information Primary Writing understand that different organizational structures are used to convey a specific purpose in writing.	Compare resources Inquire Classify Order Analyze - whole to parts - relationships
Unit 3	Big Idea	Science	Literacy (Reading and Writing)	Strategies	WIDA Standards
Matter	I want my students to understand that	5-PS1-1. Develop a model to describe that	RI.5.4 Determine the meaning of general academic and	Primary Reading determine main idea	Solve Problems

	matter is made up of particles too small to be seen	matter is made of particles too small to be seen.	domain-specific words and phrases in a text relevant to a grade 5 topic or subject area. RI.5.2 Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text. W.5.2 Write informative/explanatory texts to examine a topic and convey ideas and information clearly.	identify details Primary Writing pre-writing/organization (format)	Seek Information Plan and organize Order/sequence
Unit 4	Big Idea	Science	Literacy (Reading and Writing)	Strategies	WIDA Standards
Matter	I want my students to understand that all matter is made of identifiable particles that may be changed, mixed, or combined into new substances	5-PS1-2. Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of	RI.5.4 Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area. RL.5.1 Quote accurately from a text when explaining what	Primary Reading - determine meaning of domain specific language - interpret text Primary Writing	Synthesize new information Problem Solving

		matter is conserved. 5-PS1-3. Make observations and measurements to identify materials based on their properties. 5-PS1-4. Conduct an investigation to determine whether the mixing of two or more substances results in new substances. 3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved. (creating new mixtures)	the text says explicitly and when drawing inferences from the text. W.5.2 Write informative/explanatory texts to examine a topic and convey ideas and information clearly.	b. develop the topic with facts	
Unit 5	Big Idea	Science	Literacy (Reading and Writing)	Strategies	WIDA Standards

Energy in Organisms and Ecosystems	I want my students to understand that all living things rely upon air, water, and the sun to get the resources they need to survive	5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. 5-LS1-1. Support an argument that plants get the materials they need for growth chiefly from air and water. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.	RI.5.4 Determine the meaning of general academic and domain-specific1 words and phrases in a text relevant to a grade 5 topic or subject area. RI.5.5 Compare and contrast the overall structure (e.g., chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in two or more texts. W.5.1 Write opinion pieces on topics or texts, supporting a point of view with reasons and information. W.5.7 Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.	Primary Reading compare and contrast • problem/solution • cause/effect Primary Writing clearly state opinion b. develop topic with facts	Compare objects and ideas Justify and Persuade Infer Predict implications hypothesize
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Unit 6	Big Idea	Science	Literacy (Reading and Writing)	Strategies	WIDA Standards
Space Systems	I want my students to understand that gravity is a force that pulls objects down	5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down.	RI.5.4 Determine the meaning of general academic and domain-specific1 words and phrases in a text relevant to a grade 5 topic or subject area. RI.5.8 Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point(s). W.5.1 Write opinion pieces on topics or texts, supporting a point of view with reasons and information.	Primary Reading citing evidence from a text Primary Writing provide logically ordered supports for arguments	Inform Order Justify and persuade
Unit 7	Big Idea	Science	Literacy (Reading and Writing)	Strategies	WIDA Standards
Space Systems	I want my students to understand that the sun, moon, other	5-ESS1-1. Support an argument that differences in the apparent brightness of the sun compared to	RI.5.4 Determine the meaning of general academic and domain-specific1 words and phrases in a text	Primary Reading provide specific evidence from texts	Synthesize summarize integrate Inform identify

	stars, and planets move in predictable patterns that affect our daily lives and that our perspective of these object is determined by our position	other stars is due to their relative distances from Earth. 5-ESS1-2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky. 3-5-ETS1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.	relevant to a grade 5 topic or subject area. RI.5.8 Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point(s). RI.5.7 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. W.5.1 Write opinion pieces on topics or texts, supporting a point of view with reasons and information. W.5.7 Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.	using multiple resources to provide details Primary Writing b., d. develop facts and details with domain specific language	Order timeline continuum
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