

## Curriculum Standards

**Series:** Hands-On STEM

**Level:** Beacon

### Standards Achieved

This series supports the following Common Core State Standards, National Council for Social Studies Standards, and National Science Education Standards.

### Common Core State Standards

Key Ideas and Details	RI 3.1	Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.
	RI 3.2	Determine the main idea of a text; recount the key details and explain how they support the main idea.
	RI 3.3	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.
Craft and Structure	RI 3.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.
	RI 3.5	Use text features and search tools (e.g., key words, sidebars, hyperlinks) to locate information relevant to a given topic efficiently.
Integration of Knowledge and Ideas	RI 3.7	Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).
	RI 3.8	Describe the logical connection between particular sentences and paragraphs in a text (e.g., comparison, cause/effect, first/second/third in a sequence).
Key Ideas and Details	RI 4.1	Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.
	RI 4.2	Determine the main idea of a text and explain how it is supported by key details; summarize the text.
	RI 4.3	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.

Craft and Structure	RI 4.4	Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.
Integration of Knowledge and Ideas	RI 4.7	Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.
	RI 4.8	Explain how an author uses reasons and evidence to support particular points in a text.
Key Ideas and Details	RI 5.1	Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.
	RI 5.2	Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text.
	RI 5.3	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.
Craft and Structure	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.
Integration of Knowledge and Ideas	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).

### National Council for Social Studies Standards

Science, Technology, and Society	8	Social studies programs should include experiences that provide for the study of relationships among science, technology, and society.
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### National Science Education Standards

Science as Inquiry	Content Standard A, grades K–4	As a result of their activities in grades K–4, all students should develop abilities necessary to do scientific inquiry and understanding about scientific inquiry.
Life Science	Content Standard C, grades K–4	As a result of their activities in grades K–4, all students should develop understanding of the characteristics of organisms, life cycles of organisms, and organisms and their environments.
Earth and Space Science	Content Standard D, grades K–4	As a result of their activities in grades K–4, all students should develop understanding of properties of earth materials, objects in the sky, and changes in earth and sky.

Science as Inquiry	Content Standard A, grades 5–8	As a result of activities in grades 5–8, all students should develop abilities necessary to do scientific inquiry and understanding about scientific inquiry.
Life Science	Content Standard C, grades 5–8	As a result of their activities in grades 5–8, all students should develop understanding of structure and function in living systems, reproduction and heredity, regulation and behavior, populations and ecosystems, and diversity and adaptations of organisms.
Earth and Space Science	Content Standard D, grades 5–8	As a result of their activities in grades 5–8, all students should develop an understanding of structure of the earth system, Earth’s history, and Earth in the solar system.