



Grades 6-8

Reading Standards for Literacy in Science and Technical Subjects

Standard	FOSS Alignment
Key Ideas and Details	
<p>RST.6-8.1. Cite specific textual evidence to support analysis of science and technical texts.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1,2,3 FOSS Next Generation Diversity of Life Investigation 1,3,4,5,6,8,9, FOSS Next Generation Heredity and Adaptation Investigation 1,3 FOSS Next Generation Waves Investigation 2,3,4 FOSS Next Generation Electromagnetic Force Investigation 1,3,4</p>
<p>RST.6-8.2. Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 2,3 FOSS Next Generation Diversity of Life Investigation 1,2,3,4,5,6,7,8,9 FOSS Next Generation Heredity and Adaptation Investigation 1,2,3 FOSS Next Generation Waves Investigation 2,3,4 FOSS Next Generation Electromagnetic Force Investigation 1,2,3,4</p>
<p>RST.6-8.3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.</p>	<p>FOSS Next Generation Heredity and Adaptation Investigation 2 FOSS Next Generation Electromagnetic Force Investigation 3,4</p>
Craft and Structure	
<p>RST.6-8.4. 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.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1,2 FOSS Next Generation Heredity and Adaptation Investigation 2 FOSS Next Generation Waves Investigation 2,4 FOSS Next Generation Electromagnetic Force Investigation 2,4</p>
<p>RST.6-8.5. Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1 FOSS Next Generation Diversity of Life Investigation 1,8 FOSS Next Generation Heredity and Adaptation Investigation 1,3 FOSS Next Generation Waves Investigation 2,3 FOSS Next Generation Electromagnetic Force Investigation 1,2,3</p>
<p>RST.6-8.6. Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 2,3 FOSS Next Generation Diversity of Life Investigation 1,3,9 FOSS Next Generation Heredity and Adaptation Investigation 1,2 FOSS Next Generation Waves Investigation 2,3 FOSS Next Generation Electromagnetic Force Investigation 3,4</p>



Grades 6-8

Reading Standards for Literacy in Science and Technical Subjects (cont.)

Standard	FOSS Alignment
Integration of Knowledge and Ideas	
<p>RST.6-8.7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1,2,3 FOSS Next Generation Diversity of Life Investigation 3,4,5,7,8,9 FOSS Next Generation Heredity and Adaptation Investigation 1,2,3 FOSS Next Generation Waves Investigation 2,3,4 FOSS Next Generation Electromagnetic Force Investigation 1,2,3,4</p>
<p>RST.6-8.8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.</p>	<p>FOSS Next Generation Diversity of Life Investigation 4,6 FOSS Next Generation Heredity and Adaptation Investigation 1 FOSS Next Generation Electromagnetic Force Investigation 3</p>
<p>RST.6-8.9. Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 3 FOSS Next Generation Diversity of Life Investigation 3, 5,7,9 FOSS Next Generation Heredity and Adaptation Investigation 1,2,3, FOSS Next Generation Waves Investigation 2,3 FOSS Next Generation Electromagnetic Force Investigation 2,3,4</p>
Range of Reading and Level of Text Complexity	
<p>RST.6-8.10. By the end of grade 8, read and comprehend science/technical texts in the grades 6–8 text complexity band independently and proficiently.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1,3 FOSS Next Generation Diversity of Life Investigation 3,4,5,7,8,9 FOSS Next Generation Heredity and Adaptation Investigation 1,2,3 FOSS Next Generation Waves Investigation 2,3,4 FOSS Next Generation Electromagnetic Force Investigation 1,2,4</p>



Grades 6-8

Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects

Standard	FOSS Alignment
Text Types and Purposes	
WHST.6-8.1. Write arguments focused on discipline-specific content.	FOSS Next Generation Diversity of Life Investigation 1
WHST.6-8.2. Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.	FOSS Next Generation Diversity of Life Investigation 3,5, FOSS Next Generation Waves Investigation 1,2,3,4
Production and Distribution of Writing	
WHST.6-8.4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	FOSS Next Generation Waves Investigation 2,3
WHST.6-8.5. With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed.	FOSS Next Generation Human Systems Interactions Investigation 2 FOSS Next Generation Diversity of Life Investigation 3,6 FOSS Next Generation Heredity and Adaptation Investigation 1,3 FOSS Next Generation Waves Investigation 1,2,3,4 FOSS Next Generation Electromagnetic Force Investigation 1
WHST.6-8.6. Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.	
Research to Build and Present Knowledge	
WHST.6-8.7. 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.	FOSS Next Generation Heredity and Adaptation Investigation 1 FOSS Next Generation Waves Investigation 2,3,4
WHST.6-8.8. Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.	FOSS Next Generation Human Systems Interactions Investigation 1,2 3 FOSS Next Generation Diversity of Life Investigation 1,3,4,6,7,8,9 FOSS Next Generation Heredity and Adaptation Investigation 1,2,3 FOSS Next Generation Waves Investigation 3 FOSS Next Generation Electromagnetic Force Investigation 1,2,3
WHST.6-8.9. Draw evidence from informational texts to support analysis reflection, and research.	FOSS Next Generation Human System Interactions Investigation 3 FOSS Next Generation Diversity of Life Investigation 3,4,5,7 FOSS Next Generation Heredity and Adaptation Investigation 1,2,3 FOSS Next Generation Waves Investigation 2,3,4 FOSS Next Generation Electromagnetic Force Investigation 4

FOSS Next Generation Common Core State Standards Alignment



Grades 6-8

Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects
(cont.)

Standard	FOSS Alignment
Range of Writing	
WHST.6-8.10. Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	



Grades 6-8

Speaking and Listening Standards

Standard	FOSS Alignment
Comprehension and Collaboration	
<p>SL 1. 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.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1,2,3</p> <p>FOSS Next Generation Diversity of Life Investigation 1,3,4,5,7,9</p> <p>FOSS Next Generation Heredity and Adaptation Investigation 1,2,3</p> <p>FOSS Next Generation Waves Investigation 2,3</p> <p>FOSS Next Generation Electromagnetic Forces Investigation 3</p>
<p>SL 2. 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.</p>	<p>FOSS Next Generation Diversity of Life Investigation 2, 9</p>
<p>SL 3. Delineate a speaker's argument and specific claims, distinguishing claims that are supported by reasons and evidence from claims that are not.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1,3</p> <p>FOSS Next Generation Diversity of Life Investigation 1,3,9</p> <p>FOSS Next Generation Waves Investigation 2,3</p>
Presentation of Knowledge and Ideas	
<p>SL 4. 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.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1</p> <p>FOSS Next Generation Diversity of Life Investigation 1,3,5,9</p> <p>FOSS Next Generation Heredity and Adaptation Investigation 1,2,3</p> <p>FOSS Next Generation Waves Investigation 1,2,3,4</p> <p>FOSS Next Generation Electromagnetic Forces Investigation 3</p>
<p>SL 5. Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify information.</p>	<p>FOSS Next Generation Diversity of Life Investigation 5</p> <p>FOSS Next Generation Heredity and Adaptation Investigation 2</p> <p>FOSS Next Generation Waves Investigation 2</p> <p>FOSS Next Generation Electromagnetic Forces Investigation 1,4</p>
<p>SL 6. Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate. (See grade 6 Language standards 1 and 3 for specific expectations.)</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 3</p> <p>FOSS Next Generation Diversity of Life Investigation 3,8</p> <p>FOSS Next Generation Heredity and Adaptation Investigation 2,3</p> <p>FOSS Next Generation Waves Investigation 2</p> <p>FOSS Next Generation Electromagnetic Forces Investigation 1,2</p>



Standard	FOSS Alignment
Conventions of Standard English	
<p>L 1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.</p>	
<p>L 2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.</p>	
Knowledge of Language	
<p>L 3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.</p>	
Vocabulary Acquisition and Use	
<p>L 4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade level reading and content, choosing flexibly from a range of strategies.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 1,3 FOSS Next Generation Diversity of Life Investigation 1,3,4,5,6,7,8 FOSS Next Generation Heredity and Adaptation Investigation 2,3 FOSS Next Generation Waves Investigation 2,3,4 FOSS Next Generation Electromagnetic Forces Investigation 1</p>
<p>L 5. Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.</p>	<p>FOSS Next Generation Diversity of Life Investigation 4,5 FOSS Next Generation Heredity and Adaptation Investigation 2,3 FOSS Next Generation Waves Investigation 1,2,4 FOSS Next Generation Electromagnetic Forces Investigation 1,2,4</p>
<p>L 6. 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.</p>	<p>FOSS Next Generation Human Systems Interactions Investigation 2,3 FOSS Next Generation Diversity of Life Investigation 2,4,5 FOSS Next Generation Heredity and Adaptation Investigation 2,3 FOSS Next Generation Waves Investigation 1,2,4 FOSS Next Generation Electromagnetic Forces Investigation 2,4</p>