

Correlation of Science as Inquiry to Science and Technical Subjects Common Core Standardsⁱ

Grades 6 - 8

ID	Standard	1 Cooperative Learning	2 EEEPs	3 Fuzzy Situations	4 Active Learning	5 Projects	6 Internet	7 Project Ozone	8 Assessment	9 Earth Science Activities	10 Environmental Science Activities	11 Life Science Activities	12 Physical Science Activities
Key Ideas and Details													
RST 6-8.1	Cite specific textual evidence to support analysis of science and technical texts.			X			X	X		X	X	X	X
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.				X				X	X	X	X	X
RST 6-8.3	Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.	X	X			X		X		X	X	X	X
Craft and Structure													
RST6-	Determine the			X						X	X	X	

8.4	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.												
RST6-8.5	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					X	X			X	X	X	X
RST 6-8.6	Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.						X	X		X	X	X	X

Integration of Knowledge and Ideas

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).	X					X	X		X	X	X	X
RST 6-8.8	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.		X					X		X	X	X	X
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.	X						X		X	X	X	X
Range of Reading and Level of Text Complexity													
RST 6-8.10	By the end of grade 8, read and comprehend science/technical texts in the grades 6–8 text complexity band		X	X			X						

independently and proficiently.													
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Grades 9 - 10

ID	Standard	1 Cooperative Learning	2 EEEPs	3 Fuzzy Situations	4 Active Learning	5 Projects	6 Internet	7 Project Ozone	8 Assessment	9 Earth Science	10 Environmental Science	11 Life science	12 Physical Science
Key Ideas and Details													
RST 9-10.1	Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.			X			X	X		X	X	X	X
RST 9-10.2	Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.				X				X	X	X	X	X
RST 9-10.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined	X	X			X		X		X	X	X	X

	in the text.												
Craft and Structure													
RST 9-10.4	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 9–10 texts and topics.			X						X	X	X	
RST 9-10.5	Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., force, friction, reaction force, energy).					X	X			X	X	X	X
RST 9-10.6	Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, defining the question the author seeks to address.						X	X		X	X	X	X
Integration of Knowledge and Ideas													
RST 9-10.7	Translate quantitative or technical information expressed in words	X					X	X		X	X	X	X

	in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.												
RST 9-10.8	Assess the extent to which the reasoning and evidence in a text support the author's claim or a recommendation for solving a scientific or technical problem.		X					X		X	X	X	X
RST 9-10.9	Compare and contrast findings presented in a text to those from other sources (including their own experiments), noting when the findings support or contradict previous explanations or accounts.	X						X		X	X	X	X
Range of Reading and Level of Text Complexity													
RST 9- 10.10	By the end of grade 10, read and comprehend science/technical texts in the grades 9–10 text complexity band independently and proficiently.		X	X				X					

Grades 11 - 12

ID	Standard	1 Cooperative Learning	2 EEEPs	3 Fuzzy Situations	4 Active Learning	5 Projects	6 Internet	7 Project Ozone	8 Assessment	9 Earth Science	10 Environmental Science	11 Life science	12 Physical Science
Key Ideas and Details													
RST 11-12.1	Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.			X			X	X		X	X	X	X
RST 11-12.2	Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.				X				X	X	X	X	X
RST 11-12.3	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.	X	X			X		X		X	X	X	X
Craft and Structure													

RST 11- 12.4	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 11–12 texts and topics.									X	X	X	X
RST 11- 12.5	Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.					X	X			X	X	X	X
RST 11- 12.6	Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.						X	X		X	X	X	X
Integration of Knowledge and Ideas													
RST 11- 12.7	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.	X		X	X			X		X	X	X	X
RST 11-	Evaluate the hypotheses, data,	X	X		X			X	X	X	X	X	X

12.8	analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.												
RST 11- 12.9	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.	X			X		X	X		X	X	X	X
Range of Reading and Level of Text Complexity													
RST 11- 12.10	By the end of grade 12, read and comprehend science/technical texts in the grades 11–12 text complexity band independently and proficiently.	X		X				X					

ⁱ The Common Core Standards for Science and Technical Subjects is a very small part of the Common Core State Standards Initiative. Within a section entitled Grades 6 – 12 Literacy in History/Social Studies, Science, & Technical Subjects is the organization of the Standards for science. The author has used these standards in the Science, & Technical strand to create this analysis. For more

information please consult <http://www.corestandards.org/>. Further information can also be found on the Science as Inquiry website: <http://www.science-as-inquiry.org/>.