



Science & Technical



RST Reading Standards for Literacy in Science and Technical Subjects			6-12
KEY IDEAS AND DETAILS			
<b>ANCHOR STANDARD 1:</b> Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.			
Grade 6-8	Grade 9-10	Grade 11-12	
1. Cite specific textual evidence to support analysis of science and technical texts.	1. Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.	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.	
<b>ANCHOR STANDARD 2:</b> Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.			
Grade 6-8	Grade 9-10	Grade 11-12	
2. Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.	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.	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.	
<b>ANCHOR STANDARD 3:</b> Analyze how and why individuals, events, and ideas develop and interact over the course of a text.			
Grade 6-8	Grade 9-10	Grade 11-12	
3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.	3. Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.	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.	




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CRAFT and STRUCTURE			
<b>ANCHOR STANDARD 4:</b> Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.			
Grade 6-8	Grade 9-10	Grade 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 <i>grades 6–8 texts and topics</i> .	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 <i>grades 9–10 texts and topics</i> .	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 <i>grades 11–12 texts and topics</i> .	
<b>ANCHOR STANDARD 5:</b> Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text (e.g., a section, chapter, scene, or stanza) relate to each other and the whole.			
Grade 6-8	Grade 9-10	Grade 11-12	
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.	5. Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., <i>force, friction, reaction force, energy</i> ).	5. Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.	
<b>ANCHOR STANDARD 6:</b> Assess how point of view or purpose shapes the content and style of a text.			
Grade 6-8	Grade 9-10	Grade 11-12	
6. Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	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.	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.	




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**INTEGRATION of KNOWLEDGE and IDEAS**

 **ANCHOR STANDARD 7:** Integrate and evaluate content presented in diverse media and formats, including visually and quantitatively, as well as in words.\*

Grade 6-8	Grade 9-10	Grade 11-12
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).	7. Translate quantitative or technical information expressed in words 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.	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.


 **ANCHOR STANDARD 8:** Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well as the relevance and sufficiency of the evidence.

Grade 6-8	Grade 9-10	Grade 11-12
8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	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.	8. Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.

 **ANCHOR STANDARD 9:** Analyze how two or more texts address similar themes or topics in order to build knowledge or to compare the approaches the authors take.

Grade 6-8	Grade 9-10	Grade 11-12
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.	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.	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.

**RANGE of READING and LEVEL of TEXT COMPLEXITY**

 **ANCHOR STANDARD 10:** Read and comprehend complex literary and informational texts independently and proficiently.

Grade 6-8	Grade 9-10	Grade 11-12
10. By the end of grade 8, read and comprehend science/technical texts in the grades 6–8 text complexity band independently and proficiently.	10. By the end of grade 10, read and comprehend science/technical texts in the grades 9–10 text complexity band independently and proficiently.	10. By the end of grade 12, read and comprehend science/technical texts in the grades 11–12 text complexity band independently and proficiently.