Side-by-Side of Oklahoma Science PASS and Reading for Literacy in Science and Technical Subjects
Grades 6-8

R.ST - Reading for Literacy in Science and Technical Subjects

Grade	Strand	Standard #	Standard	Grade	Strand	Standard #	Standard
6,7,8	R. ST	Process 4.3	Evaluate data to develop reasonable explanation, and/or predications.	6-8	R.ST	1	Key Ideas and Details: Cite specific textual evidence to support analysis of science and technical texts.
6,7,8	R. ST	Process 5.2	Use technology to gather data and analyze results of investigations.				
6,7,8	R. ST	Process 5.3	Review data, summarize data, and form logical conclusions.				
6,7,8	R. ST	Process 5.3	Review data, summarize data, and form logical conclusions.	6-8	R.ST	2	Key Ideas and Details: Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
6,7,8	R. ST	Process 5.4	Formulate and evaluate explanations proposed by examining and comparing evidence, pointing out statements that go beyond evidence, and suggesting alternative explanations.				
6,7,8	R. ST	Process 1.2	Use appropriate tools (e.g., metric ruler, graduated cylinder, thermometer, balances, spring scales, stopwatches) when measuring objects, organisms, and/or events.	6-8	R.ST	3	Key Ideas and Details: Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.
6,7,8	R. ST	Process 3.5	Design and conduct experiments.				
6,7,8	R. ST	Process 5.1	Use systematic observations, make accurate measurements, and identify and control variables.				

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Grade	Strand	Standard #	Standard	Grade	Strand	Standard #	Standard
6,7,8	R. ST	Process 1.3	Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI preifxes (i.e., micro-, milli-, centi-, and kilo-) when measuring objects, organisms, and/or events.	6-8	R.ST	4	0
6,7,8	R. ST	Process 3.6	Recognize potential hazards and practice safety procedures in all science activities.				
6,7,8	R. ST	Process 5.4	Formulate and evaluate explanations proposed by examining and comparing evidence, pointing out statements that go beyond evidence, and suggesting alternative explanations.	6-8	R.ST	5	Craft and Structure: 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.
6,7,8	R. ST	Process 5.3	Review data, summarize data, and form logical conclusions.				
6,7,8	R. ST	Process 3.2	Evaluate the design of a scientific investigation.	6-8	R.ST	6	Craft and Structure: Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.
6,7,8	R. ST	Process 1.1	Identify qualitative and/or quantitative changes given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.	6-8	R.ST	7	Integration of Knowledge and Ideas: 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).

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Grade	Strand	Standard #	Standard	Grade	Strand	Standard #	Standard
6,7,8	R. ST	Process 3.3	Identify variables and/or controls in an experimental setup: independent (tested/experimental) variable and dependent (measured) variable.	6-8	R.ST	7	Integration of Knowledge and Ideas: 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).
6,7,8	R. ST	Process 4.2	Interpret data tables, line, bar, trend, and/or circle graphs.				
6,7,8	R. ST	Process 4.3	Evaluate data to develop reasonable explanations, and/or predictions.	6-8	R.ST	8	Integration of Knowledge and Ideas: Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.
6,7,8	R. ST	Process 5.3	Review data, summarize data, and form logical conclusions.				
6,7,8	R. ST	Process 5.4	Formulate and evaluate explanations proposed by examining and comparing evidence, pointing out statements that go beyond evidence, and suggesting alternative explanations.				
6,7,8	R. ST	Process 5.2	Use technology to gather data and analyze results of investigations.	6-8	R.ST	9	Integration of Knowledge and Ideas: Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
6,7,8	R. ST	None		6-8	R.ST	10	Range of Reading and Level of Text Complexity: By the end of grade 8, read and comprehend science/technical texts in the grades 6–8 text complexity band independently and proficiently.