

**Side-by-Side of Oklahoma Science PASS and Writing for Literacy in History/Social Studies, Science, and Technical Subjects
Grades 9-12**

W.HST - Writing for Literacy in History/Social Studies, Science, and Technical Subjects

Grade	Strand	Standard #	Standard	Grade	Strand	Standard #	Standard
9,10,11,12	W.HST	PASS Process Standards PS		9,10,11,12	W.HST	1	Text Types and Purposes: Write arguments focused on discipline-specific content.
9,10,11,12	W.HST	Process 4.1	Select appropriate predictions based on previously observed patterns of evidence.	9,10,11,12	W.HST	1.a	Text Types and Purposes: Introduce precise claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that establishes clear relationships among the claim(s), counterclaims, reasons, and evidence.
9,10,11,12	W.HST	Process 4.4	Accept or reject hypotheses when given results of a physical science investigation.				
9,10,11,12	W.HST	Process 4.7	Communicate or defend scientific thinking that resulted in conclusions.				
9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.	9,10,11,12	W.HST	1.b	Text Types and Purposes: Develop claim(s) and counterclaims fairly, supplying data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form and in a manner that anticipates the audience's knowledge level and concerns.
9,10,11,12	W.HST	Process 4.7	Communicate or defend scientific thinking that resulted in conclusions.				

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9,10,11,12	W.HST	Process 4.1	Select appropriate predictions based on previously observed patterns of evidence.	9,10,11,12	W.HST	1.c	Text Types and Purposes: Use words, phrases, and clauses to link the major sections of the text, create cohesion, and clarify the relationships between claim(s) and reasons, between reasons and evidence, and between claim(s) and counterclaims.
9,10,11,12	W.HST	Process 4.3	Interpret data tables, line, bar, trend, and/or circle graphs.				
9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.	9,10,11,12	W.HST	1.d	Text Types and Purposes: Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.
9,10,11,12	W.HST	Process 4.5	Evaluate experimental data to draw the most logical conclusion.	9,10,11,12	W.HST	1.e	Text Types and Purposes: Provide a concluding statement or section that follows from or supports the argument presented.
9,10,11,12	W.HST	Process 4.7	Communicate or defend scientific thinking that resulted in conclusions.				
9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.	9,10,11,12	W.HST	2	Text Types and Purposes: Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
9,10,11,12	W.HST	Process 4.8	Identify and/or create an appropriate graph or chart from collected data, tables, or written description.				

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Grade	Strand	Standard #	Standard	Grade	Strand	Standard #	Standard
9,10,11,12	W.HST	Process 1.3	Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI prefixes (i.e., micro-, milli-, centi-, and kilo-) when measuring objects and/or events.	9,10,11,12	W.HST	2.a	Text Types and Purposes: Introduce a topic and organize ideas, concepts, and information to make important connections and distinctions; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia
9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.				
9,10,11,12	W.HST	Process 4.8	Identify and/or create an appropriate graph or chart from collected data, tables, or written description.				
9,10,11,12	W.HST	Process 4.2	Report data in an appropriate manner.	9,10,11,12	W.HST	2.b	Text Types and Purposes: Develop the topic with well-chosen, relevant, and sufficient facts, extended definitions, concrete details, quotations, or other information and examples appropriate to the audience's knowledge of the topic.
9,10,11,12	W.HST	Process 4.2	Report data in an appropriate manner.	9,10,11,12	W.HST	2.c	Text Types and Purposes: Use varied transitions and sentence structures to link the major sections of the text, create cohesion, and clarify the relationships among ideas and concepts.

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Grade	Strand	Standard #	Standard	Grade	Strand	Standard #	Standard
9,10,11,12	W.HST	Process 4.7	Communicate or defend scientific thinking that resulted in conclusions.	9,10,11,12	W.HST	2.c	Text Types and Purposes: Use varied transitions and sentence structures to link the major sections of the text, create cohesion, and clarify the relationships among ideas and concepts.
9,10,11,12	W.HST	Process 1.3	Use appropriate System International (SI) units (i.e., grams, meters, liters, degrees Celsius, and seconds); and SI prefixes (i.e., micro-, milli-, centi-, and kilo-) when measuring objects and/or events.	9,10,11,12	W.HST	2.d	Text Types and Purposes: Use precise language and domain-specific vocabulary to manage the complexity of the topic and convey a style appropriate to the discipline and context as well as to the expertise of likely readers.
9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.				
9,10,11,12	W.HST	Process 4.2	Report data in an appropriate manner.	9,10,11,12	W.HST	2.e	Text Types and Purposes: Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.
9,10,11,12	W.HST	Process 4.5	Evaluate experimental data to draw the most logical conclusion.				
9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.				

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Grade	Strand	Standard #	Standard	Grade	Strand	Standard #	Standard
9,10,11,12	W.HST	Process 4.5	Evaluate experimental data to draw the most logical conclusion.	9,10,11,12	W.HST	2.f	Text Types and Purposes: Provide a concluding statement or section that follows from and supports the information or explanation presented (e.g., articulating implications or the significance of the topic).
9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.	9,10,11,12	W.HST	4	Production and Distribution of Writing: Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.	9,10,11,12	W.HST	5	Production and Distribution of Writing: Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant
9,10,11,12	W.HST	Process 4.7	Communicate or defend scientific thinking that resulted in conclusions.				

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9,10,11,12	W.HST	Process 4.6	Prepare a written report describing the sequence, results, and interpretation of a physical science investigation or event.	9,10,11,12	W.HST	7	Research to Build and Present Knowledge: Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.
9,10,11,12	W.HST	Process 4.8	Identify and/or create an appropriate graph or chart from collected data, tables, or written description.	9,10,11,12	W.HST	7	Research to Build and Present Knowledge: Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.

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Grade	Strand	Standard #	Standard	Grade	Strand	Standard #	Standard
9,10,11,12	W.HST	Process 6.1	Formulate a testable hypothesis and design an appropriate experiment relating to the physical world.	9,10,11,12	W.HST	7	Research to Build and Present Knowledge: Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.
9,10,11,12	W.HST	Process 6.2	Design and conduct science investigations in which variables are identified and controlled.				
9,10,11,12	W.HST	Process 6.3	Use a variety of technologies, such as hand tools, measuring instruments, and computers to collect, analyze, and display data.				
9,10,11,12	W.HST	Process 6.4	Inquiries should lead to the formulation of explanations or models (physical, conceptual, and mathematical). In answering questions, students should engage in discussions (based on scientific knowledge, the use of logic, and evidence from the investigation) and arguments that encourage the revision of their explanations, leading to further inquiry.	9,10,11,12	W.HST	7	Research to Build and Present Knowledge: Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.