

Connections to Standards in Gateway

PLTW curriculum is designed to empower students to thrive in an evolving world. As a part of the design process when developing and updating our curriculum, we focus on connections to a variety of standards. PLTW Green Architecture connects to standards in the following:

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Common Core College and Career Readiness Anchor Standards

Reading

Key Ideas and Details

CCSS.ELA-LITERACY.CCRA.R.1

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.R.2

Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.R.10

Read and comprehend complex literary and informational texts independently and proficiently.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core College and Career Readiness Anchor Standards

Writing

Text Types and Purposes

CCSS.ELA-LITERACY.CCRA.W.2

Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.W.4

Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.W.5

Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core College and Career Readiness Anchor Standards

CCSS.ELA-LITERACY.CCRA.W.7

Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.W.8

Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.W.9

Draw evidence from literary or informational texts to support analysis, reflection, and research.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core College and Career Readiness Anchor Standards

Speaking and Listening

Comprehension and Collaboration

CCSS.ELA-LITERACY.CCRA.SL.1

Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.SL.2

Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.SL.4

Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core College and Career Readiness Anchor Standards

CCSS.ELA-LITERACY.CCRA.SL.5

Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.SL.6

Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English when indicated or appropriate.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Language

Conventions of Standard English

CCSS.ELA-LITERACY.CCRA.L.1

Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core College and Career Readiness Anchor Standards

CCSS.ELA-LITERACY.CCRA.L.2

Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.L.4

Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.CCRA.L.5

Demonstrate understanding of word relationships and nuances in word meanings.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core College and Career Readiness Anchor Standards

CCSS.ELA-LITERACY.CCRA.L.6

Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

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Common Core State Standards for English Language Arts 6–8 Literacy Standards for History/Social Studies, Science, and Technical Subjects

Reading Science/Technical

Key Ideas and Details

CCSS.ELA-LITERACY.RST.6-8.1

Cite specific textual evidence to support analysis of science and technical texts.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.RST.6-8.3

Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6–8 Literacy Standards for History/Social Studies, Science, and Technical Subjects

Craft and Structure

CCSS.ELA-LITERACY.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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Integration of Knowledge and Ideas

CCSS.ELA-LITERACY.RST.6-8.8

Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Range of Reading and Level of Text Complexity

CCSS.ELA-LITERACY.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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6–8 Literacy Standards for History/Social Studies, Science, and Technical Subjects

Writing in History/social Studies, Science, and Technical Subjects

Text Types and Purposes

CCSS.ELA-LITERACY.WHST.6-8.2

Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.WHST.6-8.2.a

Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories as appropriate to achieving purpose; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.WHST.6-8.2.b

Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6–8 Literacy Standards for History/Social Studies, Science, and Technical Subjects

CCSS.ELA-LITERACY.WHST.6-8.2.d

Use precise language and domain-specific vocabulary to inform about or explain the topic.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Production and Distribution of Writing

CCSS.ELA-LITERACY.WHST.6-8.4

Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6–8 Literacy Standards for History/Social Studies, Science, and Technical Subjects

Research to Build and Present Knowledge

CCSS.ELA-LITERACY.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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.WHST.6-8.9

Draw evidence from informational texts to support analysis, reflection, and research.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

Reading Literature

Key Ideas and Details

CCSS.ELA-LITERACY.RL.6.1

Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4
-

Reading Informational

Key Ideas and Details

CCSS.ELA-LITERACY.RI.6.1

Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.RI.6.2

Determine a central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

Craft and Structure

CCSS.ELA-LITERACY.RI.6.4

Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Integration of Knowledge and Ideas

CCSS.ELA-LITERACY.RI.6.7

Integrate information presented in different media or formats (e.g., visually, quantitatively) as well as in words to develop a coherent understanding of a topic or issue.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Writing

Text Types and Purposes

CCSS.ELA-LITERACY.W.6.1.c

Use words, phrases, and clauses to clarify the relationships among claim(s) and reasons.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

CCSS.ELA-LITERACY.W.6.2

Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.6.2.b

Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.6.2.d

Use precise language and domain-specific vocabulary to inform about or explain the topic.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

CCSS.ELA-LITERACY.W.6.3.d

Use precise words and phrases, relevant descriptive details, and sensory language to convey experiences and events.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Production and Distribution of Writing

CCSS.ELA-LITERACY.W.6.4

Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3.)

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.6.5

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

Research to Build and Present Knowledge

CCSS.ELA-LITERACY.W.6.7

Conduct short research projects to answer a question, drawing on several sources and refocusing the inquiry when appropriate.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.6.8

Gather relevant information from multiple print and digital sources; assess the credibility of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and providing basic bibliographic information for sources.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.6.9

Draw evidence from literary or informational texts to support analysis, reflection, and research.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

Speaking and Listening

Comprehension and Collaboration

CCSS.ELA-LITERACY.SL.6.1

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.6.1.a

Come to discussions prepared, having read or studied required material; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.6.1.b

Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

CCSS.ELA-LITERACY.SL.6.1.c

Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under discussion.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.6.1.d

Review the key ideas expressed and demonstrate understanding of multiple perspectives through reflection and paraphrasing.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.6.2

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

Presentation of Knowledge and Ideas

CCSS.ELA-LITERACY.SL.6.4

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.6.5

Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify information.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.6.6

Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

Language

Conventions of Standard English

CCSS.ELA-LITERACY.L.6.1

Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.L.6.2

Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Knowledge of Language

CCSS.ELA-LITERACY.L.6.3

Use knowledge of language and its conventions when writing, speaking, reading, or listening.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 6th Grade

Vocabulary Acquisition and Use

CCSS.ELA-LITERACY.L.6.4

Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 6 reading and content, choosing flexibly from a range of strategies.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.L.6.6

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

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Common Core State Standards for English Language Arts 7th Grade

Writing

Text Types and Purposes

CCSS.ELA-LITERACY.W.7.1.b

Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.7.2

Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.7.2.d

Use precise language and domain-specific vocabulary to inform about or explain the topic.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

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CCSS.ELA-LITERACY.W.7.3.d

Use precise words and phrases, relevant descriptive details, and sensory language to capture the action and convey experiences and events.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Production and Distribution of Writing

CCSS.ELA-LITERACY.W.7.4

Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 7.w.1–3)

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Research to Build and Present Knowledge

CCSS.ELA-LITERACY.W.7.8

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 7th Grade

Speaking and Listening

Comprehension and Collaboration

CCSS.ELA-LITERACY.SL.7.1

Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 7 topics, texts, and issues, building on others' ideas and expressing their own clearly.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.7.1.a

Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.7.1.b

Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

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CCSS.ELA-LITERACY.SL.7.1.c

Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.7.1.d

Acknowledge new information expressed by others and, when warranted, modify their own views.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.7.2

Analyze the main ideas and supporting details presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 7th Grade

Presentation of Knowledge and Ideas

CCSS.ELA-LITERACY.SL.7.5

Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.7.6

Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Language

Conventions of Standard English

CCSS.ELA-LITERACY.L.7.1

Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 7th Grade

CCSS.ELA-LITERACY.L.7.2

Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.L.7.2.b

Spell correctly.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Knowledge of Language

CCSS.ELA-LITERACY.L.7.3

Use knowledge of language and its conventions when writing, speaking, reading, or listening.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 7th Grade

CCSS.ELA-LITERACY.L.7.3.a

Choose language that expresses ideas precisely and concisely, recognizing and eliminating wordiness and redundancy.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Vocabulary Acquisition and Use

CCSS.ELA-LITERACY.L.7.4

Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 7 reading and content, choosing flexibly from a range of strategies.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.L.7.6

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

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Common Core State Standards for English Language Arts 8th Grade

Writing

Text Types and Purposes

CCSS.ELA-LITERACY.W.8.2

Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.8.2.b

Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.8.2.d

Use precise language and domain-specific vocabulary to inform about or explain the topic.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

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CCSS.ELA-LITERACY.W.8.3.d

Use precise words and phrases, relevant descriptive details, and sensory language to capture the action and convey experiences and events.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Production and Distribution of Writing

CCSS.ELA-LITERACY.W.8.4

Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3.)

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 8th Grade

CCSS.ELA-LITERACY.W.8.6

Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas efficiently as well as to interact and collaborate with others.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Research to Build and Present Knowledge

CCSS.ELA-LITERACY.W.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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.W.8.9

Draw evidence from literary or informational texts to support analysis, reflection, and research.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 8th Grade

Speaking and Listening

Comprehension and Collaboration

CCSS.ELA-LITERACY.SL.8.1

Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.8.1.a

Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.8.1.b

Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 8th Grade

CCSS.ELA-LITERACY.SL.8.1.c

Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.SL.8.1.d

Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Presentation of Knowledge and Ideas

CCSS.ELA-LITERACY.SL.8.5

Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 8th Grade

CCSS.ELA-LITERACY.SL.8.6

Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

- A.1 A.2 A.3 A.4 A.5
 - B.1 B.2 B.3
 - 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
 - 1.11 1.12
 - 2.1 2.2 2.3 2.4 2.5 2.6 2.7
 - 3.1 3.2a and 3.2b 3.3 3.4
-

Language

Conventions of Standard English

CCSS.ELA-LITERACY.L.8.1

Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.L.8.2

Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 8th Grade

CCSS.ELA-LITERACY.L.8.2.c

Spell correctly.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Knowledge of Language

CCSS.ELA-LITERACY.L.8.3

Use knowledge of language and its conventions when writing, speaking, reading, or listening.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Vocabulary Acquisition and Use

CCSS.ELA-LITERACY.L.8.4

Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on grade 8 reading and content, choosing flexibly from a range of strategies.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Common Core State Standards for English Language Arts 8th Grade

CCSS.ELA-LITERACY.L.8.5.b

Use the relationship between particular words to better understand each of the words.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

CCSS.ELA-LITERACY.L.8.6

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.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

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Knowledge Constructor

3a

Students plan and employ effective research strategies to locate information and other resources for their intellectual or creative pursuits.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

3d

Students build knowledge by actively exploring real-world issues and problems, developing ideas and theories and pursuing answers and solutions.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Innovative Designer

4a

Students know and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts or solving authentic problems.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

International Society for Technology in Education

4c

Students develop, test and refine prototypes as part of a cyclical design process.

- A.1 A.2 A.3 A.4 A.5
 - B.1 B.2 B.3
 - 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
 - 1.11 1.12
 - 2.1 2.2 2.3 2.4 2.5 2.6 2.7
 - 3.1 3.2a and 3.2b 3.3 3.4
-

Computational Thinker

5c

Students break problems into component parts, extract key information, and develop descriptive models to understand complex systems or facilitate problem-solving.

- A.1 A.2 A.3 A.4 A.5
 - B.1 B.2 B.3
 - 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
 - 1.11 1.12
 - 2.1 2.2 2.3 2.4 2.5 2.6 2.7
 - 3.1 3.2a and 3.2b 3.3 3.4
-

Creative Communicator

6c

Students communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models or simulations.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Global Collaborator

7c

Students contribute constructively to project teams, assuming various roles and responsibilities to work effectively toward a common goal.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Standards for Technological and Engineering Literacy

Nature and Characteristics of Technology and Engineering

STEL-1M

Apply creative problem-solving strategies to the improvement of existing devices or processes or the development of new approaches.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Core Concepts of Technology and Engineering

STEL-2R

Compare how different technologies involve different sets of processes.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

STEL-2S

Defend decisions related to a design problem.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Standards for Technological and Engineering Literacy

Integration of Knowledge, Technologies, and Practices

STEL-3E

Analyze how different technological systems often interact with economic, environmental, and social systems.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

STEL-3F

Apply a product, system or process developed for one setting to another setting.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

STEL-3G

Explain how knowledge gained from other content areas affects the development of technological products and systems.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Standards for Technological and Engineering Literacy

Impacts of Technology

STEL-4L

Analyze how the creation and use of technologies consumes renewable and non-renewable resources and creates waste.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

STEL-4N

Analyze examples of technologies that have changed the way people think, interact, and communicate.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Influence of Society on Technological Development

STEL-5F

Analyze how an invention or innovation was influenced by its historical context.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Standards for Technological and Engineering Literacy

Design in Technology and Engineering Education

STEL-7Q

Apply the technology and engineering design process.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

STEL-7R

Refine design solutions to address criteria and constraints.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

STEL-7U

Evaluate the strengths and weaknesses of different design solutions.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Standards for Technological and Engineering Literacy

STEL-7V

Improve essential skills necessary to successfully design.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

K12 Computer Science Framework

Collaborating Around Computing

P2.CAC.1

Cultivate working relationships with individuals possessing diverse perspectives, skills, and personalities.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

P2.CAC.2

Create team norms, expectations, and equitable workloads to increase efficiency and effectiveness.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

P2.CAC.3

Solicit and incorporate feedback from, and provide constructive feedback to, team members and other stakeholders.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Next Generation Science Standards

Engineering Design

NGSS.MS-ETS1-1

Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

NGSS.MS-ETS1-2

Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

NGSS.MS-ETS1-3

Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Next Generation Science Standards

NGSS.MS-ETS1-4

Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.

- A.1 A.2 A.3 A.4 A.5
 - B.1 B.2 B.3
 - 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
 - 1.11 1.12
 - 2.1 2.2 2.3 2.4 2.5 2.6 2.7
 - 3.1 3.2a and 3.2b 3.3 3.4
-

Science and Engineering Practices

Asking Questions and Defining Problems

NGSS.P1

Asking questions and defining problems in 6-8 builds on K-5 experiences and progresses to specifying relationships between variables, and clarifying arguments and models.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Developing and Using Models

NGSS.P2

Modeling in 6-8 builds on K-5 experiences and progresses to developing, using, and revising models to describe, test, and predict more abstract phenomena and design systems.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Next Generation Science Standards

Analyzing and Interpreting Data

NGSS.P4

Analyzing and interpreting data.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Using Mathematics and Computational Thinking

NGSS.P5

Use mathematical representations to describe and/or support scientific conclusions and design solutions.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Constructing Explanations and Designing Solutions

NGSS.P6

Constructing explanations and designing solutions in 6-8 builds on K-5 experiences and progresses to include constructing explanations and designing solutions supported by multiple sources of evidence consistent with scientific ideas, principles, and theories.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Next Generation Science Standards

NGSS.P6

- Construct an explanation using models or representations.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

NGSS.P6

- Undertake a design project, engaging in the design cycle, to construct and/or implement a solution that meets specific design criteria and constraints.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

Obtaining, Evaluating, and Communicating Information

NGSS.P8

Obtaining, evaluating, and communicating information in 6-8 builds on K-5 experiences and progresses to evaluating the merit and validity of ideas and methods.

- A.1 A.2 A.3 A.4 A.5
- B.1 B.2 B.3
- 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10
- 1.11 1.12
- 2.1 2.2 2.3 2.4 2.5 2.6 2.7
- 3.1 3.2a and 3.2b 3.3 3.4

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