PLTW Gateway Standards Connection
Magic of Electrons

PLTW

Connections to Standards in PLTW 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 Magic of Electrons connects to standards in the following:

Table of Contents

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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

CCSS.ELA-LITERACY.CCRA.R.10
Read and comprehend complex literary and informational texts independently and proficiently.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

Common Core College and Career Readiness Anchor Standards

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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

CCSS.ELA-LITERACY.CCRA.W.9
Draw evidence from literary or informational texts to support analysis, reflection, and research.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☐ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☑ 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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4
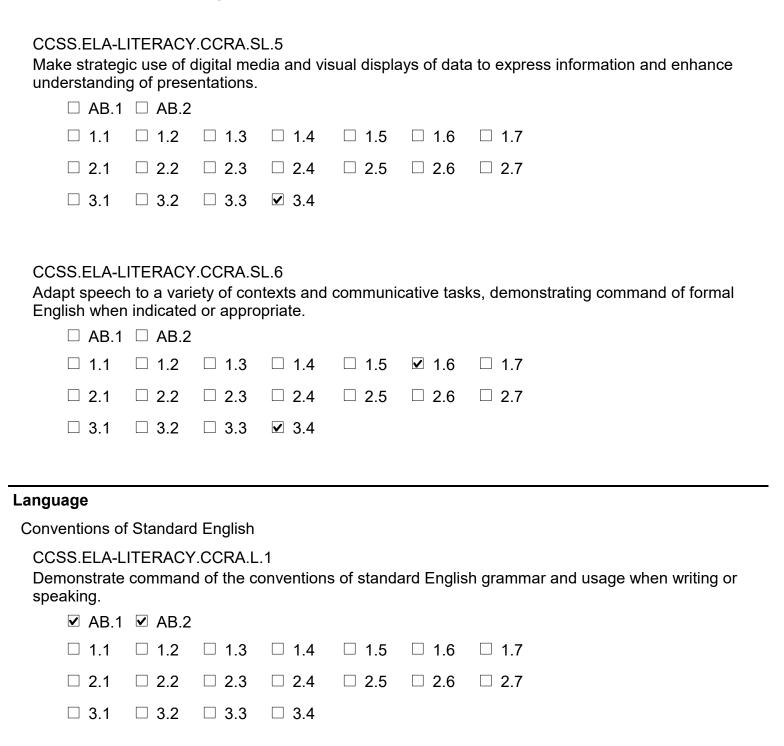
CCSS.ELA-LITERACY.CCRA.SL.4

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.

☐ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☐ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☑ 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.

- ☐ AB.1 ☐ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 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.

- ☐ AB.1 ☐ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 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.

- ☑ AB.1 ☑ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

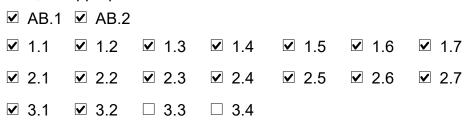# Common Core College and Career Readiness Anchor Standards

CCSS.ELA-LITERACY.CCRA.L.2
Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

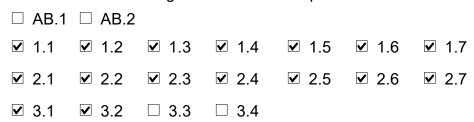☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

CCSS.ELA-LITERACY.CCRA.L.5
Demonstrate understanding of word relationships and nuances in word meanings.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 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.

- ☐ AB.1
- ☐ AB.2

- ☑ 1.1
- ☑ 1.2
- ☑ 1.3
- ☑ 1.4
- ☑ 1.5
- ☑ 1.6
- ☑ 1.7

- ☑ 2.1
- ☑ 2.2
- ☑ 2.3
- ☑ 2.4
- ☑ 2.5
- ☑ 2.6
- ☑ 2.7

- ☑ 3.1
- ☑ 3.2
- ☑ 3.3
- ☑ 3.4

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.6-8.2
Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 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.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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

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.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☑ 3.3 ☑ 3.4

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.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

CCSS.ELA-LITERACY.WHST.6-8.2.d
Use precise language and domain-specific vocabulary to inform about or explain the topic.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☑ 3.4

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

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.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

Research to Build and Present Knowledge

CCSS.ELA-LITERACY.WHST.6-8.9
Draw evidence from informational texts to support analysis, reflection, and research.

☐ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 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.

- ☐ AB.1 ☑ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 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.

- ☐ AB.1 ☑ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 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.

- ☐ AB.1 ☐ AB.2
- ☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7
- ☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7
- ☑ 3.1 ☑ 3.2 ☐ 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.

    ☑ AB.1 ☑ AB.2

    ☑ 1.1   ☑ 1.2   ☑ 1.3   ☑ 1.4   ☑ 1.5   ☐ 1.6   ☐ 1.7

    ☑ 2.1   ☑ 2.2   ☑ 2.3   ☑ 2.4   ☑ 2.5   ☑ 2.6   ☑ 2.7

    ☑ 3.1   ☑ 3.2   ☐ 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.

    ☑ AB.1 ☑ AB.2

    ☐ 1.1   ☐ 1.2   ☐ 1.3   ☐ 1.4   ☐ 1.5   ☐ 1.6   ☐ 1.7

    ☐ 2.1   ☐ 2.2   ☐ 2.3   ☐ 2.4   ☐ 2.5   ☐ 2.6   ☐ 2.7

    ☐ 3.1   ☐ 3.2   ☐ 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.

    ☑ AB.1 ☐ AB.2

    ☐ 1.1   ☐ 1.2   ☐ 1.3   ☐ 1.4   ☐ 1.5   ☐ 1.6   ☐ 1.7

    ☐ 2.1   ☐ 2.2   ☐ 2.3   ☐ 2.4   ☐ 2.5   ☐ 2.6   ☐ 2.7

    ☐ 3.1   ☐ 3.2   ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☑ 3.4

CCSS.ELA-LITERACY.W.6.3.d
Use precise words and phrases, relevant descriptive details, and sensory language to convey experiences and events.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☑ 3.4

Common Core State Standards for English Language Arts 6th Grade

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.)

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

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.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

CCSS.ELA-LITERACY.W.6.9
Draw evidence from literary or informational texts to support analysis, reflection, and research.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 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.

☑ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☑ 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.

☐ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

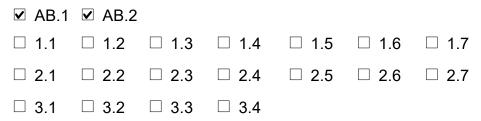☑ 3.1 ☑ 3.2 ☑ 3.3 ☑ 3.4

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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 6th Grade

CCSS.ELA-LITERACY.SL.6.5
Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify information.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 6th Grade

CCSS.ELA-LITERACY.L.6.2
Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 6th Grade
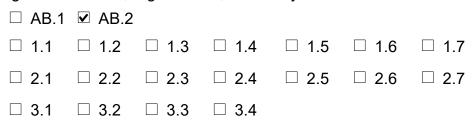
CCSS.ELA-LITERACY.L.6.6
Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.

- ☑ AB.1 ☑ AB.2
- ☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7
- ☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7
- ☑ 3.1 ☑ 3.2 ☑ 3.3 ☑ 3.4

Common Core State Standards for English Language Arts 7th Grade

Reading Literature

Key Ideas and Details

CCSS.ELA-LITERACY.RL.7.1
Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 7th Grade

CCSS.ELA-LITERACY.W.7.2.d
Use precise language and domain-specific vocabulary to inform about or explain the topic.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☑ 3.3 ☑ 3.4

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.

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 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)

☐ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 7th Grade

CCSS.ELA-LITERACY.W.7.5
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.

- ☐ AB.1 ☐ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 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.

- ☐ AB.1 ☑ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

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.

- ☑ AB.1 ☐ AB.2
- ☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7
- ☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7
- ☑ 3.1 ☑ 3.2 ☑ 3.3 ☑ 3.4

Common Core State Standards for English Language Arts 7th Grade

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.

☐ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

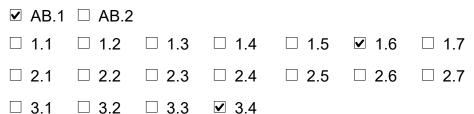☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

Common Core State Standards for English Language Arts 7th Grade

CCSS.ELA-LITERACY.SL.7.1.d
Acknowledge new information expressed by others and, when warranted, modify their own views.

☑ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

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.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

Common Core State Standards for English Language Arts 7th Grade

CCSS.ELA-LITERACY.SL.7.6
Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

☐ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☑ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

CCSS.ELA-LITERACY.L.7.2
Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 7th Grade

CCSS.ELA-LITERACY.L.7.2.b
Spell correctly.

☑ AB.1 ☑ AB.2

☐ 1.1   ☐ 1.2   ☐ 1.3   ☐ 1.4   ☐ 1.5   ☐ 1.6   ☐ 1.7

☐ 2.1   ☐ 2.2   ☐ 2.3   ☐ 2.4   ☐ 2.5   ☐ 2.6   ☐ 2.7

☐ 3.1   ☐ 3.2   ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1   ☐ 1.2   ☐ 1.3   ☐ 1.4   ☐ 1.5   ☐ 1.6   ☐ 1.7

☐ 2.1   ☐ 2.2   ☐ 2.3   ☐ 2.4   ☐ 2.5   ☐ 2.6   ☐ 2.7

☐ 3.1   ☐ 3.2   ☐ 3.3   ☐ 3.4

CCSS.ELA-LITERACY.L.7.3.a
Choose language that expresses ideas precisely and concisely, recognizing and eliminating wordiness and redundancy.

☑ AB.1 ☑ AB.2

☐ 1.1   ☐ 1.2   ☐ 1.3   ☐ 1.4   ☐ 1.5   ☑ 1.6   ☐ 1.7

☐ 2.1   ☐ 2.2   ☐ 2.3   ☐ 2.4   ☐ 2.5   ☐ 2.6   ☐ 2.7

☐ 3.1   ☐ 3.2   ☐ 3.3   ☑ 3.4

Common Core State Standards for English Language Arts 7th Grade

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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☑ AB.2

☐ 1.1   ☐ 1.2   ☐ 1.3   ☐ 1.4   ☐ 1.5   ☐ 1.6   ☐ 1.7

☐ 2.1   ☐ 2.2   ☐ 2.3   ☐ 2.4   ☐ 2.5   ☐ 2.6   ☐ 2.7

☐ 3.1   ☐ 3.2   ☐ 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.

☐ AB.1 ☑ AB.2

☐ 1.1   ☐ 1.2   ☐ 1.3   ☐ 1.4   ☐ 1.5   ☐ 1.6   ☐ 1.7

☐ 2.1   ☐ 2.2   ☐ 2.3   ☐ 2.4   ☐ 2.5   ☐ 2.6   ☐ 2.7

☐ 3.1   ☐ 3.2   ☐ 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.

☑ AB.1 ☑ AB.2

☑ 1.1   ☑ 1.2   ☑ 1.3   ☑ 1.4   ☑ 1.5   ☑ 1.6   ☑ 1.7

☑ 2.1   ☑ 2.2   ☑ 2.3   ☑ 2.4   ☑ 2.5   ☑ 2.6   ☑ 2.7

☑ 3.1   ☑ 3.2   ☑ 3.3   ☑ 3.4

Common Core State Standards for English Language Arts 8th Grade

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.

- ☐ AB.1 ☐ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 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.)

- ☑ AB.1 ☑ AB.2
- ☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7
- ☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7
- ☑ 3.1 ☑ 3.2 ☐ 3.3 ☑ 3.4

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.

- ☑ AB.1 ☑ AB.2
- ☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7
- ☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
- ☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 8th Grade

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.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

CCSS.ELA-LITERACY.W.8.9

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

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☑ 3.3 ☑ 3.4

Common Core State Standards for English Language Arts 8th Grade

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.

☐ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
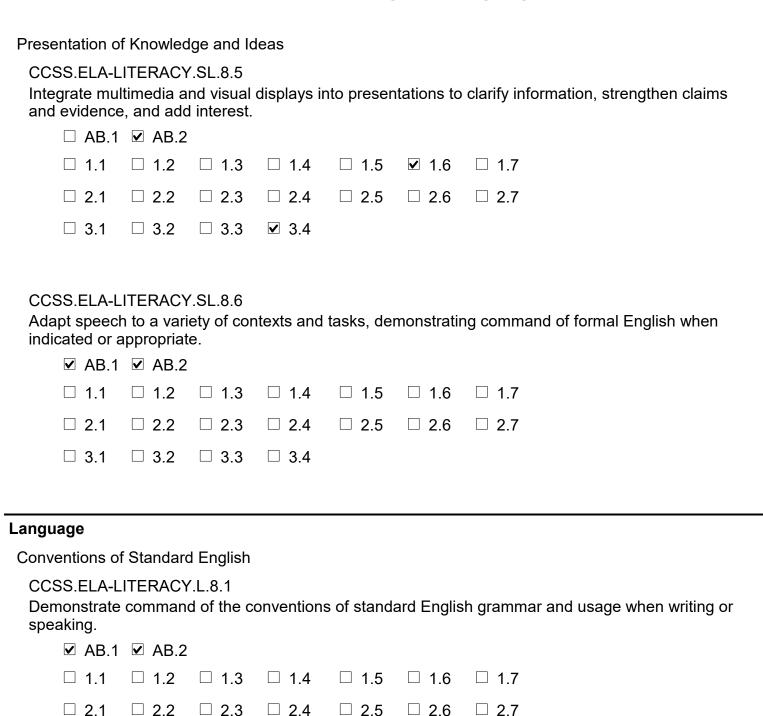
☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☑ 3.3 ☑ 3.4

Common Core State Standards for English Language Arts 8th Grade

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.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

CCSS.ELA-LITERACY.SL.8.6
Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 8th Grade

CCSS.ELA-LITERACY.L.8.2
Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

CCSS.ELA-LITERACY.L.8.2.c
Spell correctly.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Common Core State Standards for English Language Arts 8th Grade

Vocabulary Acquisition and Use

CCSS.ELA-LITERACY.L.8.5.b
Use the relationship between particular words to better understand each of the words.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☑ 1.6 ☑ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7
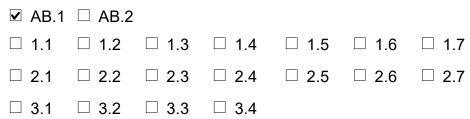
☑ 3.1 ☑ 3.2 ☑ 3.3 ☑ 3.4

International Society for Technology in Education

Knowledge Constructor

3a

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

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

4c

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

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

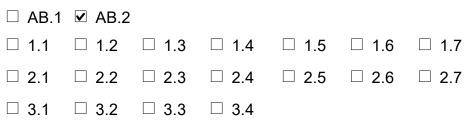☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

International Society for Technology in Education

Computational Thinker

5c
Students break problems into component parts, extract key information, and develop descriptive models to understand complex systems or facilitate problem-solving.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4
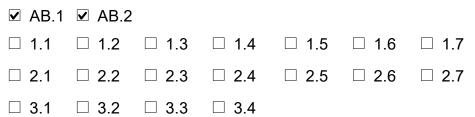
Creative Communicator

6c
Students communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models or simulations.

☐ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☑ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Standards for Technological and Engineering Literacy

Core Concepts of Technology and Engineering

STEL-2S
Defend decisions related to a design problem.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

Design in Technology and Engineering Education

STEL-7Q
Apply the technology and engineering design process.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

STEL-7R
Refine design solutions to address criteria and constraints.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

Standards for Technological and Engineering Literacy

STEL-7S
Create solutions to problems by identifying and applying human factors in design.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

STEL-7U
Evaluate the strengths and weaknesses of different design solutions.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

STEL-7V
Improve essential skills necessary to successfully design.

☑ AB.1 ☐ AB.2
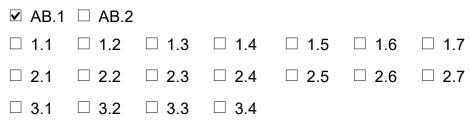
☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

Next Generation Science Standards
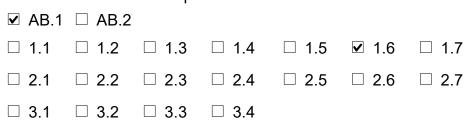
Engineering Design

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7
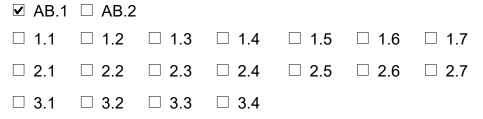
☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Next Generation Science Standards

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

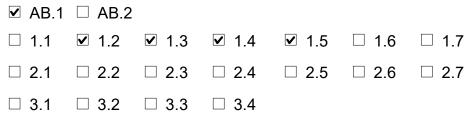Developing and Using Models

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Next Generation Science Standards

NGSS.P6

• Construct an explanation using models or representations.

☐ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☑ 2.6 ☑ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

NGSS.P6

• Apply scientific ideas, principles, and/or evidence to construct, revise and/or use an explanation for realworld phenomena, examples, or events.

☐ AB.1 ☐ AB.2

☐ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☐ 3.1 ☐ 3.2 ☑ 3.3 ☑ 3.4

NGSS.P6

• Apply scientific reasoning to show why the data or evidence is adequate for the explanation or conclusion.

☐ AB.1 ☐ AB.2

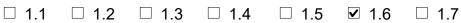☐ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

Next Generation Science Standards

NGSS.P6

• Apply scientific ideas or principles to design, construct, and/or test a design of an object, tool, process or system.

☐ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☑ 2.6 ☑ 2.7

☐ 3.1 ☐ 3.2 ☑ 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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

NGSS.P6

• Optimize performance of a design by prioritizing criteria, making tradeoffs, testing, revising, and retesting.
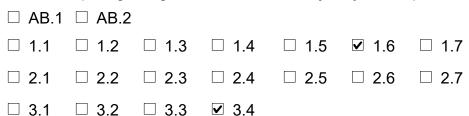
☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

Next Generation Science Standards

NGSS.P7

• Evaluate competing design solutions based on jointly developed and agreed-upon design criteria.

☐ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☑ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☑ 3.4

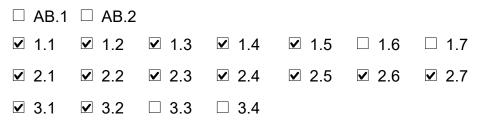Obtaining, Evaluating, and Communicating Information

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.

☑ AB.1 ☐ AB.2

☐ 1.1 ☐ 1.2 ☐ 1.3 ☐ 1.4 ☐ 1.5 ☐ 1.6 ☐ 1.7

☐ 2.1 ☐ 2.2 ☐ 2.3 ☐ 2.4 ☐ 2.5 ☐ 2.6 ☐ 2.7

☐ 3.1 ☐ 3.2 ☐ 3.3 ☐ 3.4

NGSS.P8

• Critically read scientific texts adapted for classroom use to determine the central ideas and/or obtain scientific and/or technical information to describe patterns in and/or evidence about the natural and designed world(s).

☐ AB.1 ☐ AB.2

☑ 1.1 ☑ 1.2 ☑ 1.3 ☑ 1.4 ☑ 1.5 ☐ 1.6 ☐ 1.7

☑ 2.1 ☑ 2.2 ☑ 2.3 ☑ 2.4 ☑ 2.5 ☑ 2.6 ☑ 2.7

☑ 3.1 ☑ 3.2 ☐ 3.3 ☐ 3.4

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