

Consolidated Standards Mapping (Grades 5-8)

Table of Contents

www.seaperch.org



Common Core: English Language Arts.....	2-17
Grade 5.....	2-5
Grade 6.....	6-9
Grade 7	10-13
Grade 8	14-17
Common Core: Mathematics.....	18-19
Grade 5	18-19
Next Generation Science Standards (NGSS)	20-24
Grade 5	20-21
Grades 6-8.....	22-24
Partnership for 21st Century Skills (P21)	25-31

Common Core Standards Alignment (Grade 5)



English/Language Arts

www.seaperch.org

Legend

	Standard addressed in SeaPerch Build Guide
	Standard could be addressed by additional activities during the SeaPerch build

Reading: Literature (Grade 5)

Indicator	Indicator Statement	Addressed
RL.5.1	Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.	 
RL.5.2	Determine a theme of a story, drama, or poem from details in the text, including how characters in a story or drama respond to challenges or how the speaker in a poem reflects upon a topic; summarize the text.	
RL.5.3	Compare and contrast two or more characters, settings, or events in a story or drama, drawing on specific details in the text (e.g., how characters interact).	
RL.5.4	Determine the meaning of words and phrases as they are used in a text, including figurative language such as metaphors and similes.	
RL.5.5	Explain how a series of chapters, scenes, or stanzas fits together to provide the overall structure of a particular story, drama, or poem.	
RL.5.6	Describe how a narrator's or speaker's point of view influences how events are described.	
RL.5.7	Analyze how visual and multimedia elements contribute to the meaning, tone, or beauty of a text (e.g., graphic novel, multimedia presentation of fiction, folktale, myth, poem).	
RL.5.9	Compare and contrast stories in the same genre (e.g., mysteries and adventure stories) on their approaches to similar themes and topics.	
RL.5.10	By the end of the year, read and comprehend literature, including stories, dramas, and poetry, at the high end of the grades 4–5 text complexity band independently and proficiently.	

Reading: Informational Text (Grade 5)

Indicator	Indicator Statement	Addressed
RI.5.1	Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.	
RI.5.2	Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text.	
RI.5.3	Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.	<input checked="" type="radio"/> <input type="radio"/>
RI.5.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.	<input checked="" type="radio"/>
RI.5.5	Compare and contrast the overall structure (e.g., chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in two or more texts.	
RI.5.6	Analyze multiple accounts of the same event or topic, noting important similarities and differences in the point of view they represent.	
RI.5.7	Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.	<input checked="" type="radio"/> <input type="radio"/>
RI.5.8	Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point(s).	<input checked="" type="radio"/> <input type="radio"/>
RI.5.9	Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.	<input checked="" type="radio"/> <input type="radio"/>
RI.5.10	By the end of the year, read and comprehend informational texts, including history/social studies, science, and technical texts, at the high end of the grades 4–5 text complexity band independently and proficiently.	





Speaking & Listening (Grade 5)

Indicator	Indicator Statement	Addressed
SL.5.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.	<input checked="" type="radio"/> <input type="radio"/>
SL.5.1.A	Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.	<input checked="" type="radio"/> <input type="radio"/>
SL.5.1.B	Follow agreed-upon rules for discussions and carry out assigned roles.	<input checked="" type="radio"/> <input type="radio"/>
SL.5.1.C	Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others.	<input checked="" type="radio"/> <input type="radio"/>

Indicator	Indicator Statement	Addressed
SL.5.1.D	Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.	<input checked="" type="radio"/> <input type="radio"/>
SL.5.2	Summarize a written text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.	<input checked="" type="radio"/> <input type="radio"/>
SL.5.3	Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.	<input checked="" type="radio"/> <input type="radio"/>
SL.5.4	Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.	<input checked="" type="radio"/> <input type="radio"/>
SL.5.5	Include multimedia components (e.g., graphics, sound) and visual displays in presentations when appropriate to enhance the development of main ideas or themes.	<input checked="" type="radio"/> <input type="radio"/>
SL.5.6	Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation. (See grade 5 Language standards 1 and 3 on page 28 for specific expectations.)	<input checked="" type="radio"/> <input type="radio"/>

Language (Grade 5)

Indicator	Indicator Statement	Addressed
L.5.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	<input checked="" type="radio"/> <input type="radio"/>
L.5.1.A	Explain the function of conjunctions, prepositions, and interjections in general and their function in particular sentences	<input checked="" type="radio"/> <input type="radio"/>
L.5.1.B	Form and use the perfect (e.g., I had walked; I have walked; I will have walked) verb tenses.	<input checked="" type="radio"/> <input type="radio"/>
L.5.1.C	Use verb tense to convey various times, sequences, states, and conditions.	<input checked="" type="radio"/> <input type="radio"/>
L.5.1.D	Recognize and correct inappropriate shifts in verb tense.	<input checked="" type="radio"/> <input type="radio"/>
L.5.1.E	Use correlative conjunctions (e.g., either/or, neither/nor).	<input checked="" type="radio"/> <input type="radio"/>
L.5.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	<input checked="" type="radio"/> <input type="radio"/>
L.5.2.A	Use punctuation to separate items in a series.	
L.5.2.B	Use a comma to separate an introductory element from the rest of the sentence.	
L.5.2.C	Use a comma to set off the words yes and no (e.g., Yes, thank you), to set off a tag question from the rest of the sentence (e.g., It's true, isn't it?), and to indicate direct address (e.g., Is that you, Steve?).	



Indicator	Indicator Statement	Addressed
L.5.2.D	Use underlining, quotation marks, or italics to indicate titles of works.	
L.5.2.E	Spell grade-appropriate words correctly, consulting references as needed.	
L.5.3	Use knowledge of language and its conventions when writing, speaking, reading, or listening.	
L.5.3.A	Expand, combine, and reduce sentences for meaning, reader/listener interest, and style.	
L.5.3.B	Compare and contrast the varieties of English (e.g., dialects, registers) used in stories, dramas, or poems.	
L.5.4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.	
L.5.4.A	Use context (e.g., cause/effect relationships and comparisons in text) as a clue to the meaning of a word or phrase.	
L.5.4.B	Use common, grade-appropriate Greek and Latin affixes and roots as clues to the meaning of a word (e.g., photograph, photosynthesis).	
L.5.4.C	Consult reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation and determine or clarify the precise meaning of key words and phrases.	
L.5.5	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	
L.5.5.A	Interpret figurative language, including similes and metaphors, in context.	
L.5.5.B	Recognize and explain the meaning of common idioms, adages, and proverbs.	
L.5.5.C	Use the relationship between particular words (e.g., synonyms, antonyms, homographs) to better understand each of the words.	
L.5.6	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases, including those that signal contrast, addition, and other logical relationships (e.g., however, although, nevertheless, similarly moreover, in addition).	

Common Core Standards Alignment (Grade 6)













English/Language Arts

www.seaperch.org

Legend

	Standard addressed in SeaPerch Build Guide
	Standard could be addressed by additional activities during the SeaPerch build

Reading: Informational Text (Grade 6)

Indicator	Indicator Statement	Addressed
RI.6.1	Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.	 
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.	 
RI.6.3	Analyze in detail how a key individual, event, or idea is introduced, illustrated, and elaborated in a text (e.g., through examples or anecdotes).	 
RI.6.4	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.	 
RI.6.5	Analyze how a particular sentence, paragraph, chapter, or section fits into the overall structure of a text and contributes to the development of the ideas.	
RI.6.6	Determine an author's point of view or purpose in a text and explain how it is conveyed in the text.	
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.	 
RI.6.8	Trace and evaluate the argument and specific claims in a text, distinguishing claims that are supported by reasons and evidence from claims that are not.	 
RI.6.9	Compare and contrast one author's presentation of events with that of another (e.g., a memoir written by and a biography on the same person)	
RI.6.10	By the end of the year, read and comprehend literary nonfiction in the grades 6–8 text complexity band proficiently, with scaffolding as needed at the high end of the range.	

Speaking and Listening (Grade 6)

Indicator	Indicator Statement	Addressed
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.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
SL.6.1.B	Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
SL.6.1.D	Review the key ideas expressed and demonstrate understanding of multiple perspectives through reflection and paraphrasing.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
SL.6.3	Delineate a speaker's argument and specific claims, distinguishing claims that are supported by reasons and evidence from claims that are not.	
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.	<input checked="" type="radio"/> <input type="radio"/>
SL.6.5	Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify information.	<input checked="" type="radio"/> <input type="radio"/>
SL.6.6	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or. (See grade 6 Language standards 1 and 3 above for specific expectations.)	

Language (Grade 6)

Indicator	Indicator Statement	Addressed
L.6.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	<input checked="" type="radio"/> <input type="radio"/>
L.6.1.A	Ensure that pronouns are in the proper case (subjective, objective, possessive).	<input checked="" type="radio"/> <input type="radio"/>
L.6.1.B	Use intensive pronouns (e.g., myself, ourselves).	<input checked="" type="radio"/> <input type="radio"/>
L.6.1.C	Recognize and correct inappropriate shifts in pronoun number and person.	<input checked="" type="radio"/> <input type="radio"/>

Indicator	Indicator Statement	Addressed
L.6.1.D	Recognize and correct vague pronouns (i.e., ones with unclear or ambiguous antecedents).	<input checked="" type="radio"/> <input type="radio"/>
L.6.1.E	Recognize variations from standard English in their own and others' writing and speaking, and identify and use strategies to improve expression in conventional language.	<input checked="" type="radio"/> <input type="radio"/>
L.6.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	
L.6.2.A	Use punctuation (commas, parentheses, dashes) to set off nonrestrictive/parenthetical elements.	
L.6.2.B	Spell correctly.	<input checked="" type="radio"/> <input type="radio"/>
L.6.3	Use knowledge of language and its conventions when writing, speaking, reading, or listening.	<input checked="" type="radio"/> <input type="radio"/>
L.6.3.A	Vary sentence patterns for meaning, reader/listener interest, and style.	
L.6.3.B	Vary sentence patterns for meaning, reader/listener interest, and style.	
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.	<input checked="" type="radio"/> <input type="radio"/>
L.6.4.A	Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.	<input checked="" type="radio"/> <input type="radio"/>
L.6.4.B	Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., audience, auditory, audible).	
L.6.4.C	Consult reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.	<input checked="" type="radio"/> <input type="radio"/>
L.6.4.D	Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).	<input checked="" type="radio"/> <input type="radio"/>
L.6.5	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	
L.6.5.A	Interpret figures of speech (e.g., personification) in context.	
L.6.5.B	Use the relationship between particular words (e.g., cause/ effect, part/whole, item/category) to better understand each of the words	<input checked="" type="radio"/> <input type="radio"/>
L.6.5.C	Distinguish among the connotations (associations) of words with similar denotations (definitions) (e.g., stingy, scrimping, economical, unwasteful, thrifty).	
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.	

Reading Standards for Literacy in History/Social Studies, Science, and Technical Subjects (Grades 6-8)



Indicator	Indicator Statement	Addressed
RST.6-8.1	Cite specific textual evidence to support analysis of science and technical texts.	
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.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.3	Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.5	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.6	Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.7	Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.8	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.9	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.	<input checked="" type="radio"/> <input type="radio"/>
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.	

Common Core Standards Alignment (Grade 7)













English/Language Arts

www.seaperch.org

Legend

	Standard addressed in
	Standard could be addressed by additional activities

Reading: Informational Text (Grade 7)

Indicator	Indicator Statement	Addressed
RI.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.	 
RI.7.2	Determine two or more central ideas in a text and analyze their development over the course of the text; provide an objective summary of the text.	 
RI.7.3	Analyze the interactions between individuals, events, and ideas in a text (e.g., how ideas influence individuals or events, or how individuals influence ideas or events).	
RI.7.4	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of a specific word choice on meaning and tone.	 
RI.7.5	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to the development of the ideas.	
RI.7.6	Determine an author's point of view or purpose in a text and analyze how the author distinguishes his or her position from that of others.	 
RI.7.7	Compare and contrast a text to an audio, video, or multimedia version of the text, analyzing each medium's portrayal of the subject (e.g., how the delivery of a speech affects the impact of the words).	
RI.7.8	Trace and evaluate the argument and specific claims in a text, assessing whether the reasoning is sound and the evidence is relevant and sufficient to support the claims.	 
RI.7.9	Analyze how two or more authors writing about the same topic shape their presentations of key information by emphasizing different evidence or advancing different interpretations of facts	 
RI.7.10	By the end of the year, read and comprehend literary nonfiction in the grades 6–8 text complexity band proficiently, with scaffolding as needed at the high end of the range	

Speaking and Listening (Grade 7)

Indicator	Indicator Statement	Addressed
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.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
SL.7.1.B	Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
SL.7.1.D	Acknowledge new information expressed by others and, when warranted, modify their own views.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
SL.7.3	Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and the relevance and sufficiency of the evidence.	<input checked="" type="radio"/> <input type="radio"/>
SL.7.4	Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation.	<input checked="" type="radio"/> <input type="radio"/>
SL.7.5	Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points	<input checked="" type="radio"/> <input type="radio"/>
SL.7.6	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.	

Language (Grade 7)

Indicator	Indicator Statement	Addressed
L.7.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	
L.7.1.A	Explain the function of phrases and clauses in general and their function in specific sentences.	
L.7.1.B	Choose among simple, compound, complex, and compound-complex sentences to signal differing relationships among ideas.	

Indicator	Indicator Statement	Addressed
L.7.1.C	Place phrases and clauses within a sentence, recognizing and correcting misplaced and dangling modifiers.	
L.7.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	
L.7.2.A	Use a comma to separate coordinate adjectives (e.g., It was a fascinating, enjoyable movie but not He wore an old[,] green shirt).	
L.7.2.B	Spell correctly.	<input checked="" type="radio"/> <input type="radio"/>
L.7.3	Use knowledge of language and its conventions when writing, speaking, reading, or listening.	<input checked="" type="radio"/> <input type="radio"/>
L.7.3.A	Choose language that expresses ideas precisely and concisely, recognizing and eliminating wordiness and redundancy	
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.	<input checked="" type="radio"/> <input type="radio"/>
L.7.4.A	Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.	<input checked="" type="radio"/> <input type="radio"/>
L.7.4.B	Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., belligerent, bellicose, rebel).	
L.7.4.C	Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.	
L.7.4.D	Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).	<input checked="" type="radio"/> <input type="radio"/>
L.7.5	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	
L.7.5.A	Interpret figures of speech (e.g., literary, biblical, and mythological allusions) in context.	
L.7.5.B	Use the relationship between particular words (e.g., synonym/ antonym, analogy) to better understand each of the words.	
L.7.5.C	Distinguish among the connotations (associations) of words with similar denotations (definitions) (e.g., refined, respectful, polite, diplomatic, condescending).	
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.	<input checked="" type="radio"/> <input type="radio"/>

Reading Standards for Literacy in History/Social Studies, Science, and Technical Subjects (Grades 6-8)

Indicator	Indicator Statement	Addressed
RST.6-8.1	Cite specific textual evidence to support analysis of science and technical texts.	
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.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.3	Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.5	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.6	Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.7	Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.8	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.9	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>

Common Core Standards Alignment (Grade 8)

English/Language Arts

www.seaperch.org

Legend

<input checked="" type="radio"/>	Standard addressed in
<input type="radio"/>	Standard could be addressed by additional activities

Reading: Literature (Grade 8)

Indicator	Indicator Statement	Addressed
RL.8.1	Cite the textual evidence that most strongly supports an analysis of what the text says explicitly as well as inferences drawn from the text.	<input checked="" type="radio"/> <input type="radio"/>
RL.8.2	Determine a theme or central idea of a text and analyze its development over the course of the text, including its relationship to the characters, setting, and plot; provide an objective summary of the text.	
RL.8.3	Analyze how particular lines of dialogue or incidents in a story or drama propel the action, reveal aspects of a character, or provoke a decision.	
RL.8.4	Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts.	<input checked="" type="radio"/> <input type="radio"/>
RL.8.5	Compare and contrast the structure of two or more texts and analyze how the differing structure of each text contributes to its meaning and style.	<input checked="" type="radio"/> <input type="radio"/>
RL.8.6	Analyze how differences in the points of view of the characters and the audience or reader (e.g., created through the use of dramatic irony) create such effects as suspense or humor.	
RL.8.7	Analyze the extent to which a filmed or live production of a story or drama stays faithful to or departs from the text or script, evaluating the choices made by the director or actors.	
RL.8.9	Analyze how a modern work of fiction draws on themes, patterns of events, or character types from myths, traditional stories, or religious works such as the Bible, including describing how the material is rendered new.	
RL.8.10	By the end of the year, read and comprehend literature, including stories, dramas, and poems, in the grades 6–8 text complexity band proficiently, with scaffolding as needed at the high end of the range.	
RL.8.11	Cite the textual evidence that most strongly supports an analysis of what the text says explicitly as well as inferences drawn from the text.	

Speaking and Listening (Grade 8)

Indicator	Indicator Statement	Addressed
SL.8.1	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.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
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	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
SL.8.2	Analyze the purpose of information presented in diverse media and formats (e.g., visually, quantitatively, orally) and evaluate the motives (e.g., social, commercial, political) behind its presentation.	<input checked="" type="radio"/> <input type="radio"/>
SL.8.3	Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and relevance and sufficiency of the evidence and identifying when irrelevant evidence is introduced	<input checked="" type="radio"/> <input type="radio"/>
SL.8.4	Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation.	<input checked="" type="radio"/> <input type="radio"/>
SL.8.5	Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.	<input checked="" type="radio"/> <input type="radio"/>
SL.8.6	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.	<input checked="" type="radio"/> <input type="radio"/>

Language (Grade 8)

Indicator	Indicator Statement	Addressed
L.8.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	<input checked="" type="radio"/> <input type="radio"/>
L.8.1.A	Explain the function of verbals (gerunds, participles, infinitives) in general and their function in particular sentences.	
L.8.1.B	Form and use verbs in the active and passive voice.	

Indicator	Indicator Statement	Addressed
L.8.1.C	Form and use verbs in the indicative, imperative, interrogative, conditional, and subjunctive mood.	
L.8.1.D	Recognize and correct inappropriate shifts in verb voice and mood.	
L.8.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing	
L.8.2.A	Use punctuation (comma, ellipsis, dash) to indicate a pause or break.	
L.8.2.B	Use an ellipsis to indicate an omission.	
L.8.2.C	Spell correctly.	<input checked="" type="radio"/> <input type="radio"/>
L.8.3	Use knowledge of language and its conventions when writing, speaking, reading, or listening.	<input checked="" type="radio"/> <input type="radio"/>
L.8.3.A	Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).	
L.8.4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 8 reading and content, choosing flexibly from a range of strategies.	<input checked="" type="radio"/> <input type="radio"/>
L.8.4.A	Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.	<input checked="" type="radio"/> <input type="radio"/>
L.8.4.B	Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., precede, recede, secede).	
L.8.4.C	Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.	<input checked="" type="radio"/> <input type="radio"/>
L.8.4.D	Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).	<input checked="" type="radio"/> <input type="radio"/>
L87.5	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	
L.8.5.A	Interpret figures of speech (e.g., verbal irony, puns) in context.	
L.8.5.B	Use the relationship between particular words to better understand each of the words.	
L.8.5.C	Distinguish among the connotations (associations) of words with similar denotations (definitions) (e.g., bullheaded, willful, firm, persistent, resolute).	
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.	

Reading Standards for Literacy in History/Social Studies, Science, and Technical Subjects (Grades 6-8)

Indicator	Indicator Statement	Addressed
RST.6-8.1	Cite specific textual evidence to support analysis of science and technical texts.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.3	Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.5	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.6	Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.7	Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.8	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	<input checked="" type="radio"/> <input type="radio"/>
RST.6-8.9	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>

Common Core Standards Alignment (8th grade level)

Mathematics

www.seaperch.org

Legend

	Standard addressed in
	Standard could be addressed by additional activities

Mathematical Practices

Practice	Standard
MP1	Make sense of problems and persevere in solving them.
MP2	Reason abstractly and quantitatively.
MP3	Construct viable arguments and critique the reasoning of others.
MP4	Model with mathematics.
MP5	Use appropriate tools strategically.
MP6	Attend to precision.
MP7	Look for and make use of structure.
MP8	Look for and express regularity in repeated reasoning.

The Number System		
8.NS.A.1	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	
8.NS.A.2	Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2).	
Expressions and Equations		
8.EE.A.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	
8.EE.A.2	Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that the square root of 2 is irrational.	

8.EE.A.3	Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other.	<input checked="" type="radio"/> <input type="radio"/>
8.EE.A.4	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	<input checked="" type="radio"/> <input type="radio"/>
8.EE.B.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.	<input checked="" type="radio"/> <input type="radio"/>
8.EE.B.6	Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .	<input checked="" type="radio"/> <input type="radio"/>
8.EE.C.7	Solve linear equations in one variable.	<input checked="" type="radio"/> <input type="radio"/>
8.EE.C.8	Analyze and solve pairs of simultaneous linear equations.	<input checked="" type="radio"/> <input type="radio"/>
	Functions	
8.F.A.1	Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.	<input checked="" type="radio"/> <input type="radio"/>
8.F.A.1	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).	<input checked="" type="radio"/> <input type="radio"/>
8.F.A.3	Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.	<input checked="" type="radio"/> <input type="radio"/>
8.F.B.4	Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	<input checked="" type="radio"/> <input type="radio"/>
8.F.B.5	Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	<input checked="" type="radio"/> <input type="radio"/>
	Geometry	

8.G.A.5	Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.	<input checked="" type="radio"/> <input type="radio"/>
8.G.B.6	Explain a proof of the Pythagorean Theorem and its converse.	<input checked="" type="radio"/> <input type="radio"/>
8.G.B.7	Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.	<input checked="" type="radio"/> <input type="radio"/>
8.G.B.8	Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	<input checked="" type="radio"/> <input type="radio"/>
8.G.C.9	Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.	<input checked="" type="radio"/> <input type="radio"/>
Statistics and Probability		
8.SP.A.1	Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.	<input checked="" type="radio"/> <input type="radio"/>
8.SP.A.2	Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.	<input checked="" type="radio"/> <input type="radio"/>
8.SP.A.3	Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.	<input checked="" type="radio"/> <input type="radio"/>
8.SP.A.3	Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables.	<input checked="" type="radio"/> <input type="radio"/>

Next Generation Science Standards (MS)

Performance Expectations

www.seaperch.org

Legend

<input checked="" type="radio"/>	Standard addressed in
<input type="radio"/>	Standard could be addressed by additional activities

Matter & Its Interactions

Indicator	Indicator Statement	Addressed
MS-PS1-1	Develop a model to describe that matter is made of particles too small to be seen.	<input checked="" type="radio"/> <input type="radio"/>
MS-PS1-2	Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.	<input checked="" type="radio"/> <input type="radio"/>
MS-PS1-3	Make observations and measurements to identify materials based on their properties.	<input checked="" type="radio"/> <input type="radio"/>

Motion & Stability: Forces & Interactions

Indicator	Indicator Statement	Addressed
MS-PS2-3	Ask questions about data to determine the factors that affect the strength of electric and magnetic forces.	<input checked="" type="radio"/> <input type="radio"/>
MS-PS2-B	Types of Interactions -Electric and magnetic (electromagnetic) forces can be attractive or repulsive, and their sizes, depend on the magnitudes of the charges, currents, or magnetic strengths involved and on the distances between the interacting objects.	<input checked="" type="radio"/> <input type="radio"/>

Energy

Indicator	Indicator Statement	Addressed
MS-PS3-4	Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.	<input checked="" type="radio"/> <input type="radio"/>

Waves and Their Applications

Indicator	Indicator Statement	Addressed
MS-PS4-2	Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.	<input checked="" type="radio"/> <input type="radio"/>

Earth's Systems

Indicator	Indicator Statement	Addressed
MS-ESS2-1	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	<input checked="" type="radio"/> <input type="radio"/>
MS-ESS2-2	Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.	<input checked="" type="radio"/> <input type="radio"/>
MS-ESS2-5	Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.	<input checked="" type="radio"/> <input type="radio"/>

Earth & Human Activity

Indicator	Indicator Statement	Addressed
MS-ESS3-3	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.	<input checked="" type="radio"/> <input type="radio"/>
MS-ESS3-5	Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.	<input checked="" type="radio"/> <input type="radio"/>

Engineering Design

Indicator	Indicator Statement	Addressed
MS-ETS1-1	Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.	<input checked="" type="radio"/> <input type="radio"/>
MS-ETS1-2	Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.	<input checked="" type="radio"/> <input type="radio"/>
MS-ETS1-3	Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.	<input checked="" type="radio"/> <input type="radio"/>
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.	

Next Generation Science Standards (Grade 6-8)

Performance Expectations

www.seaperch.org

Legend

<input checked="" type="radio"/>	Standard addressed in
<input type="radio"/>	Standard could be addressed by additional activities

Motion and Stability: Forces and Interactions

Indicator	Indicator Statement	Addressed

Energy

Indicator	Indicator Statement	Addressed


Indicator	Indicator Statement	Addressed
MS-PS3-3	Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer.	<input checked="" type="radio"/> <input type="radio"/>
MS-PS3-4	Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.	<input checked="" type="radio"/> <input type="radio"/>
MS-PS3-5	Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.	<input checked="" type="radio"/> <input type="radio"/>

Earth & Human Activity

Indicator	Indicator Statement	Addressed
MS-ESS3-1	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.	<input checked="" type="radio"/> <input type="radio"/>
MS-ESS3-2	Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.	<input checked="" type="radio"/> <input type="radio"/>
MS-ESS3-3	Apply scientific principles to design a method for monitoring and minimizing human impact.	<input checked="" type="radio"/> <input type="radio"/>
MS-ESS3-4	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.	<input checked="" type="radio"/> <input type="radio"/>
MS-ESS3-5	Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.	<input checked="" type="radio"/> <input type="radio"/>

Engineering Design

Indicator	Indicator Statement	Addressed
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.	<input checked="" type="radio"/> <input type="radio"/>
MS-ETS1-2	Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.	<input checked="" type="radio"/> <input type="radio"/>
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.	<input checked="" type="radio"/> <input type="radio"/>

Indicator	Indicator Statement	Addressed
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.	

Partnership for 21st Century Learning Alignment

Student Outcomes – All Grades

www.seaperch.org

Legend

<input checked="" type="radio"/>	Standard addressed in
<input type="radio"/>	Standard could be addressed by additional activities

Core Subjects

Cluster	Indicator Statement	Addressed
Global Awareness	Use 21st century skills to understand and address global issues.	<input checked="" type="radio"/> <input type="radio"/>
Environmental Literacy	Demonstrate knowledge and understanding of the environment and the circumstances and conditions affecting it, particularly as relates to air, climate, land, food, energy, water and ecosystems.	<input checked="" type="radio"/> <input type="radio"/>
	Demonstrate knowledge and understanding of society’s impact on the natural world (e.g., population growth, population development, resource consumption rate, etc.).	<input checked="" type="radio"/> <input type="radio"/>
	Investigate and analyze environmental issues and make accurate conclusions about effective solutions.	<input checked="" type="radio"/> <input type="radio"/>
	Take individual and collective action towards addressing environmental challenges (e.g., participate in global actions, designing solutions that inspire action on environmental issues).	<input checked="" type="radio"/> <input type="radio"/>

Creativity & Innovation

Cluster	Indicator Statement	Addressed
Think Creatively	Use a wide range of idea creation techniques (such as brainstorming).	<input checked="" type="radio"/> <input type="radio"/>
	Create new and worthwhile ideas (both incremental and radical concepts).	<input checked="" type="radio"/> <input type="radio"/>
	Elaborate, refine, analyze, and evaluate their own ideas in order to improve and maximize creative efforts.	<input checked="" type="radio"/> <input type="radio"/>
	Develop, implement, and communicate new ideas to others effectively.	<input checked="" type="radio"/> <input type="radio"/>

Work Creatively with Others	Be open and responsive to new and diverse perspectives; incorporate group input and feedback into the work.	<input checked="" type="radio"/> <input type="radio"/>
	Demonstrate originality and inventiveness in work and understand the real-world limits to adopting new ideas.	<input checked="" type="radio"/> <input type="radio"/>
	View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes.	<input checked="" type="radio"/> <input type="radio"/>
Implement Innovations	Act on creative ideas to make a tangible and useful contribution to the field in which the innovation will occur.	<input checked="" type="radio"/> <input type="radio"/>

Critical Thinking & Problem Solving

Cluster	Indicator Statement	Addressed
Reason Effectively	Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation.	<input checked="" type="radio"/> <input type="radio"/>
	Use systems thinking.	<input checked="" type="radio"/> <input type="radio"/>
	Analyze how parts of a whole interact with each other to produce overall outcomes in complex systems.	<input checked="" type="radio"/> <input type="radio"/>
	Make judgments and decisions.	<input checked="" type="radio"/> <input type="radio"/>
	Effectively analyze and evaluate evidence, arguments, claims, and beliefs.	<input checked="" type="radio"/> <input type="radio"/>
	Analyze and evaluate major alternative points of view.	<input checked="" type="radio"/> <input type="radio"/>
	Synthesize and make connections between information and arguments.	<input checked="" type="radio"/> <input type="radio"/>
	Interpret information and draw conclusions based on the best analysis.	<input checked="" type="radio"/> <input type="radio"/>
	Reflect critically on learning experiences and processes.	<input checked="" type="radio"/> <input type="radio"/>
Solve Problems	Solve different kinds of non-familiar problems in both conventional and innovative ways.	<input checked="" type="radio"/> <input type="radio"/>
	Identify and ask significant questions that clarify various points of view and lead to better solutions.	<input checked="" type="radio"/> <input type="radio"/>

Communication & Collaboration

Cluster	Indicator Statement	Addressed
Communicate Clearly	Listen effectively to decipher meaning, including knowledge, values, attitudes, and intentions.	<input checked="" type="radio"/> <input type="radio"/>
	Use communication for a range of purposes (e.g., to inform, instruct, motivate, and persuade).	<input checked="" type="radio"/> <input type="radio"/>
	Communicate effectively in diverse environments (including multi-lingual).	<input checked="" type="radio"/> <input type="radio"/>
	Collaborate with others.	<input checked="" type="radio"/> <input type="radio"/>
	Demonstrate ability to work effectively and respectfully with diverse teams.	<input checked="" type="radio"/> <input type="radio"/>
	Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal.	<input checked="" type="radio"/> <input type="radio"/>
	Assume shared responsibility for collaborative work, and value the individual contributions made by each team member.	<input checked="" type="radio"/> <input type="radio"/>

Information Literacy

Cluster	Indicator Statement	Addressed
Access & Evaluate Information	Access information efficiently (time) and effectively (sources).	<input checked="" type="radio"/> <input type="radio"/>
	Evaluate information critically and competently.	<input checked="" type="radio"/> <input type="radio"/>
Use & Manage Information	Use information accurately and creatively for the issue or problem at hand.	<input checked="" type="radio"/> <input type="radio"/>
	Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of information.	<input checked="" type="radio"/> <input type="radio"/>

Flexibility & Adaptability

Cluster	Indicator Statement	Addressed
Adapt to Change	Adapt to varied roles, job responsibilities, schedules, and contexts.	<input checked="" type="radio"/> <input type="radio"/>
	Work effectively in a climate of ambiguity and changing priorities.	<input checked="" type="radio"/> <input type="radio"/>
Be Flexible	Incorporate feedback effectively.	<input checked="" type="radio"/> <input type="radio"/>
	Deal positively with praise, setbacks, and criticism.	<input checked="" type="radio"/> <input type="radio"/>

	Understand, negotiate, and balance diverse views and beliefs to reach workable solutions, particularly in multi-cultural environments.	<input checked="" type="radio"/> <input type="radio"/>
--	--	--

Initiative & Self-Direction

Cluster	Indicator Statement	Addressed
Manage Goals & Time	Set goals with tangible and intangible success criteria.	<input checked="" type="radio"/> <input type="radio"/>
	Balance tactical (short-term) and strategic (long-term) goals.	<input checked="" type="radio"/> <input type="radio"/>
	Utilize time and manage workload efficiently.	<input checked="" type="radio"/> <input type="radio"/>
Work Independently	Monitor, define, prioritize, and complete tasks without direct oversight.	<input checked="" type="radio"/> <input type="radio"/>
	Be self-directed learners.	<input checked="" type="radio"/> <input type="radio"/>
	Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise.	<input checked="" type="radio"/> <input type="radio"/>
	Demonstrate initiative to advance skill levels towards a professional level.	<input checked="" type="radio"/> <input type="radio"/>
	Demonstrate commitment to learning as a lifelong process.	<input checked="" type="radio"/> <input type="radio"/>
	Reflect critically on past experiences in order to inform future progress.	<input checked="" type="radio"/> <input type="radio"/>

Social & Cross-Cultural Skills

Cluster	Indicator Statement	Addressed
Interact Effectively with Others	Know when it is appropriate to listen and when to speak.	<input checked="" type="radio"/> <input type="radio"/>
	Conduct themselves in a respectable, professional manner.	<input checked="" type="radio"/> <input type="radio"/>
Work Effectively in Diverse Teams	Respect cultural differences and work effectively with people from a range of social and cultural backgrounds.	<input checked="" type="radio"/> <input type="radio"/>
	Respond open-mindedly to different ideas and values.	<input checked="" type="radio"/> <input type="radio"/>
	Leverage social and cultural differences to create new ideas and increase both innovation and quality of work.	<input checked="" type="radio"/> <input type="radio"/>

Productivity & Accountability

Cluster	Indicator Statement	Addressed
Manage Projects	Set and meet goals, even in the face of obstacles and competing pressures.	<input checked="" type="radio"/> <input type="radio"/>
	Prioritize, plan, and manage work to achieve the intended result.	<input checked="" type="radio"/> <input type="radio"/>
21st Century Standards	Engage students with the real-world data, tools, and experts they will encounter in college, on the job, and in life; students learn best when actively engaged in solving meaningful problems.	<input checked="" type="radio"/> <input type="radio"/>
	Allow for multiple measures of mastery.	<input checked="" type="radio"/> <input type="radio"/>
Assessment of 21st Century Skills	Emphasize useful feedback on student performance that is embedded into everyday learning.	<input checked="" type="radio"/> <input type="radio"/>
21st Century Curriculum & Instruction	Teach 21st century skills discretely in the context of key subjects and 21st century interdisciplinary themes.	<input checked="" type="radio"/> <input type="radio"/>
	Focus on providing opportunities for applying 21st century skills across content areas and for a competency-based approach to learning.	<input checked="" type="radio"/> <input type="radio"/>
	Enable innovative learning methods that integrate the use of supportive technologies, inquiry- and problem-based approaches and higher order thinking skills.	<input checked="" type="radio"/> <input type="radio"/>
	Encourage the integration of community resources beyond school walls.	<input checked="" type="radio"/> <input type="radio"/>
21st Century Professional Development	Highlight ways teachers can seize opportunities for integrating 21st century skills, tools, and teaching strategies into their classroom practice — and help them identify what activities they can replace/de-emphasize.	<input checked="" type="radio"/> <input type="radio"/>
	Balance direct instruction with project-oriented teaching methods.	<input checked="" type="radio"/> <input type="radio"/>
	Illustrate how a deeper understanding of subject matter can actually enhance problem-solving, critical thinking, and other 21st century skills.	<input checked="" type="radio"/> <input type="radio"/>
	Enable 21st century professional learning communities for teachers that model the kinds of classroom learning that best promotes 21st century skills for students.	<input checked="" type="radio"/> <input type="radio"/>
	Cultivate teachers' ability to identify students' particular learning styles, intelligences, strengths, and weaknesses.	<input checked="" type="radio"/> <input type="radio"/>

Cluster	Indicator Statement	Addressed
Produce Results	Demonstrate additional attributes associated with producing high quality products including the abilities to: Work positively and ethically; manage time and projects effectively; multi-task; participate actively, as well as be reliable and punctual; present oneself professionally and with proper etiquette; collaborate and cooperate effectively with teams; respect and appreciate team diversity; and, be accountable for results.	<input checked="" type="radio"/> <input type="radio"/>

Leadership & Responsibility

Cluster	Indicator Statement	Addressed
Guide & Lead Others	Use interpersonal and problem-solving skills to influence and guide others toward a goal.	<input checked="" type="radio"/> <input type="radio"/>
	Leverage strengths of others to accomplish a common goal.	<input checked="" type="radio"/> <input type="radio"/>
	Inspire others to reach their very best via example and selflessness.	<input checked="" type="radio"/> <input type="radio"/>
	Demonstrate integrity and ethical behavior in using influence and power.	<input checked="" type="radio"/> <input type="radio"/>
Be Responsible to Others	Act responsibly with the interests of the larger community in mind.	<input checked="" type="radio"/> <input type="radio"/>
	Help teachers develop their abilities to use various strategies (such as formative assessments) to reach diverse students and create environments that support differentiated teaching and learning.	<input checked="" type="radio"/> <input type="radio"/>
	Support the continuous evaluation of students' 21st century skills development.	<input checked="" type="radio"/> <input type="radio"/>
	Encourage knowledge sharing among communities of practitioners, using face-to-face, virtual, and blended communications.	<input checked="" type="radio"/> <input type="radio"/>
	Use a scalable and sustainable model of professional development.	<input checked="" type="radio"/> <input type="radio"/>
21st Century Learning Environments	Create learning practices, human support, and physical environments that will support the teaching and learning of 21st century skill outcomes.	<input checked="" type="radio"/> <input type="radio"/>
	Support professional learning communities that enable educators to collaborate, share best practices, and integrate 21st century skills into classroom practice.	<input checked="" type="radio"/> <input type="radio"/>
	Enable students to learn in relevant, real-world 21st century contexts (e.g., through project-based or other applied work).	<input checked="" type="radio"/> <input type="radio"/>
	Allow equitable access to quality learning tools, technologies, and resources.	<input checked="" type="radio"/> <input type="radio"/>

Cluster	Indicator Statement	Addressed
	Provide 21st century architectural and interior designs for group, team, and individual learning.	<input checked="" type="radio"/> <input type="radio"/>
	Support expanded community and international involvement in learning, both face-to-face and online.	<input checked="" type="radio"/> <input type="radio"/>