



Next Generation Science Standards*

Mathematics Common Core State Standards**

**English Language Arts
Common Core State Standards**
Grades 1-6**

Next Generation Science Standards*		
GRADE 1	1	2
LS1.A: Structure and Function All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water, and air. Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive and grow.	•	•
GRADE 2	1	2
2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats.	•	•
GRADE 3	1	2
3-LS4-3. Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.	•	•
GRADE 4	1	2
4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction	•	•
GRADE 5	1	2
5-ESS2-1 Develop a model using an example to describe a scientific principle.	•	•
GRADE 6 (Middle School)	1	2
MS-LS4-2. Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer evolutionary relationships.	•	•
MS-LS4-4. Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.	•	•

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Mathematics Common Core State Standards**		
GRADE 3	1	2
Operations and Algebraic Thinking Represent and solve problems involving multiplication and division.	•	
Solve problems involving the four operations, and identify and explain patterns in arithmetic.	•	
GRADE 4	1	2
Operations and Algebraic Thinking Use the four operations with whole numbers to solve problems.	•	
Generate and analyze patterns.	•	
GRADE 5	1	2
Operations and Algebraic Thinking Write and interpret numerical expressions.	•	
Analyze patterns and relationships.	•	
GRADE 6	1	2
Mathematical Practices 1. Make sense of problems and persevere in solving them.	•	
2. Reason abstractly and quantitatively.	•	

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English Language Arts Common Core State Standards**		
GRADE 1	1	2
Reading: Informational Text		
Key Ideas and Details		
1. Ask and answer questions about key details in a text.	•	•
Reading: Foundational Skills		
Phonics and Word Recognition		
3. Know and apply grade-level phonics and word analysis skills in decoding words.	•	•
Speaking and Listening		
Comprehension and Collaboration		
1. Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.	•	•
1a. Follow agreed-upon rules for discussions (e.g., listening to others with care, speaking one at a time about the topics and texts under discussion).	•	•
1b. Build on others' talk in conversations by responding to the comments of others through multiple exchanges.	•	•
1c. Ask questions to clear up any confusion about the topics and texts under discussion.	•	•
Language		
Vocabulary Acquisition and Use		
4. Determine or clarify the meaning of unknown and multiple-meaning word and phrases based on grade 1 reading and content, choosing flexibly from a range of strategies.	•	•

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English Language Arts Common Core State Standards**		
GRADE 2	1	2
Reading: Informational Text		
Craft and Structure		
4. Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.	•	•
5. Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently.	•	•
Reading Standards: Foundational Skills		
Phonics and Word Recognition		
3. Know and apply grade-level phonics and word analysis skills in decoding words.	•	•
Speaking and Listening		
Comprehension and Collaboration		
1a. Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).	•	•
1b. Build on others' talk in conversations by linking their comments to the remarks of others.	•	•
1c. Ask for clarification and further explanation as needed about the topics and texts under discussion.	•	•
3. Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.	•	•
Language		
Knowledge of Language		
3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.	•	•
Vocabulary Acquisition and Use		
4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 2 reading and content, choosing flexibly from an array of strategies.	•	•

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English Language Arts Common Core State Standards**		
GRADE 3	1	2
Reading: Informational Text		
Craft and Structure		
4. Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.	•	•
5. Use text features and search tools (e.g., key words, sidebars, hyperlinks) to locate information relevant to a given topic efficiently.	•	•
Reading: Foundational Skills		
Phonics and Word Recognition		
3. Know and apply grade-level phonics and word analysis skills in decoding words.	•	•
Speaking and Listening		
Comprehension and Collaboration		
1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.	•	•
1b. Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).	•	•
1c. Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.	•	•
1d. Explain their own ideas and understanding in light of the discussion.	•	•
3. Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.	•	•
Language		
Conventions of Standard English		
1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	•	•
Knowledge of Language		
3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.	•	•
Vocabulary Acquisition and Use		
4. Determine or clarify the meaning of unknown and multiple-meaning word and phrases based on grade 3 reading and content, choosing flexibly from a range of strategies.	•	•

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English Language Arts Common Core State Standards**		
GRADE 4	1	2
Reading: Informational Text		
Craft and Structure		
4. Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.	•	•
Reading: Foundational Skills		
Phonics and Word Recognition		
3. Know and apply grade-level phonics and word analysis skills in decoding words.	•	•
Speaking and Listening		
Comprehension and Collaboration		
1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.	•	•
1b. Follow agreed-upon rules for discussions and carry out assigned roles.	•	•
1c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.	•	•
Language		
Conventions of Standard English		
1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	•	•
Knowledge of Language		
3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.	•	•
Vocabulary Acquisition and Use		
4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.	•	•
5. Demonstrate understanding of figurative language, word relationships, and nuances in word meanings	•	•
6. Acquire and use accurately grade-appropriate conversational, general academic, and domain specific words and phrases, including those that signal precise actions, emotions, or states of being and that are basic to a particular topic.	•	•

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English Language Arts Common Core State Standards**		
GRADE 5	1	2
Reading: Informational Text		
Craft and Structure		
4. Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 5 topic or subject area.	•	•
Reading: Foundational Skills		
Phonics and Word Recognition		
3. Know and apply grade-level phonics and word analysis skills in decoding words.	•	•
Speaking and Listening		
Comprehension and Collaboration		
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.	•	•
1b. Follow agreed-upon rules for discussions and carry out assigned roles.	•	•
1c. Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others.	•	•
Language		
Conventions of Standard English		
1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	•	•
Knowledge of Language		
3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.	•	•
Vocabulary Acquisition and Use		
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.	•	•
5. Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	•	•
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.	•	•

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English Language Arts Common Core State Standards**		
GRADE 6	1	2
Reading: Informational Text		
Craft and Structure		
4. Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.	•	•
Speaking and Listening		
Comprehension and Collaboration		
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	•	•
Language		
Conventions of Standard English		
1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	•	•
Knowledge of Language		
3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.	•	•
Vocabulary Acquisition and Use		
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.	•	•
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.	•	•

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