



Grades 1-2 Next Generation Science Standards and English Language Arts Common Core State Standards

Next Generation Science Standards*	Activity 1	Activity 2
First Grade		
1-LS1-1. From Molecules to Organisms: Structures and Processes Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.		
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.	●	●
LS1.B: Growth and Development of Organisms --- Adult plants and animals can have young. In many kinds of animals, parents and the offspring themselves engage in behaviors that help the offspring to survive.	●	●
1-LS1-2. From Molecules to Organisms: Structures and Processes Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.	●	●
Second Grade		
2-LS4-1. Biological Evolution: Unity and Diversity Make observations of plants and animals to compare the diversity of life in different habitats.	●	●
LS4.D Biodiversity and Humans --- There are many different kinds of living things in any area, and they exist in different places on land and in water.	●	●

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First Grade Common Core State English Language Arts Standards**	Activity 1	Activity 2
Reading: Foundational Skills		
Print Concepts:	●	●
CCSS.ELA-LITERACY.RF.1.1 Demonstrate understanding of the organization and basic features of print.		
Reading: Informational Text		
Range of Reading and Level of Text Complexity:	●	●
CCSS.ELA-LITERACY.RI.1.10 With prompting and support, read informational texts appropriately complex for grade 1.		
Speaking and Listening		
Comprehension and Collaboration:	●	●
CCSS.ELA-LITERACY.SL.1.1 Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.		
Presentation of Knowledge and Ideas:	●	●
CCSS.ELA-LITERACY.SL.1.5 Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings.		

Second Grade Common Core State English Language Arts Standards**	Activity 1	Activity 2
Reading: Informational Text		
Integration of Knowledge and Ideas:	●	●
CCSS.ELA-LITERACY.RI.2.7 Explain how specific images (e.g., a diagram showing how a machine works) contribute to and clarify a text.		
Reading: Foundational Skills		
Fluency:	●	●
CCSS.ELA-LITERACY.RF.2.4. Read with sufficient accuracy and fluency to support comprehension.		
Speaking and Listening		
Comprehension and Collaboration:	●	●
CCSS.ELA-LITERACY.SL.2.1 Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.		

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**Grades 3-6 Next Generation Science Standards and
English Language Arts Common Core State Standards**

Next Generation Science Standards*	Activity 1	Activity 2	Activity 3
Third Grade			
3-LS4-2. Biological Evolution: Unity and Diversity Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.	•	•	•
3-LS4-3. Biological Evolution: Unity and Diversity 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.	•	•	•
3-LS4-4. Biological Evolution: Unity and Diversity Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.	•	•	•
Fourth Grade			
4-LS1-1. From Molecules to Organisms: Structure and Processes Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.	•	•	•
Fifth Grade			
5-PS3-1 Energy Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. -- Use models to describe phenomena.	•	•	•
5-LS1-1. From Molecules to Organisms: Structure and Processes Support an argument that plants get the materials they need for growth chiefly from air and water. -- Support an argument with evidence, data, or a model.	•	•	•
5-LS2-1. Ecosystems: Interactions, Energy, and Dynamics Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. -- A system can be described in terms of its components and their interactions.	•	•	•
Sixth Grade (Middle School)			
MS-LS4-2. Biological Evolution: Unity and Diversity 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. Biological Evolution: Unity and Diversity 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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Third Grade Common Core English Language Arts Standards**	Activity 1	Activity 2	Activity 3
Reading: Informational Text			
Key Ideas and Details:			
CCSS.ELA-LITERACY.RI.3.1			
Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.	•	•	•
Integration of Knowledge and Ideas:			
CCSS.ELA-LITERACY.RI.3.7			
Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).	•	•	•
Speaking and Listening			
Comprehension and Collaboration:			
CCSS.ELA-LITERACY.SL.3.1			
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.	•	•	•

Fourth Grade Common Core English Language Arts Standards**	Activity 1	Activity 2	Activity 3
Reading: Informational Text			
Key Ideas and Details:			
CCSS.ELA-LITERACY.RI.4.1			
Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.	•	•	•
Integration of Knowledge and Ideas:			
CCSS.ELA-LITERACY.RI.4.7			
Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.	•	•	•
Speaking and Listening			
Comprehension and Collaboration:			
CCSS.ELA-LITERACY.SL.4.1			
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.	•	•	•

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Fifth Grade Common Core English Language Arts Standards**	Activity 1	Activity 2	Activity 3
Reading: Informational Text			
Key Ideas and Details:			
CCSS.ELA-LITERACY.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.	●	●	●
Integration of Knowledge and Ideas:			
CCSS.ELA-LITERACY.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.	●	●	●
Speaking and Listening			
Comprehension and Collaboration:			
CCSS.ELA-LITERACY.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.	●	●	●

Sixth Grade Common Core English Language Arts Standards**	Activity 1	Activity 2	Activity 3
Reading Informational Text			
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.	●	●	●
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.	●	●	●
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.	●	●	●

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