

Grade 5

Adopted 2019

Energy	5-PS3-1. Use models to describe how energy from the sun is converted into food (used for body repair, growth, motion, and to maintain body warmth). 5-PS3-1
From Molecules to Organisms: Structures and Processes	5-LS1-1. Support an argument that plants get the materials they need for growth chiefly from air and water. 5-LS1-1
Earth's Systems	5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. 5-ESS2-1 5-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. 5-ESS2-2
Earth and Human Activity	5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment. 5-ESS3-1
Engineering & Technology	5-ET1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 5-ET1-1 5-ET1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. 5-ET1-2 5-ET1-3. 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. 5-ET1-3
Earth's Place in the Universe	5-ESS1-1. Support an argument that the apparent brightness of the sun and stars is due to their relative distances from the Earth. 5-ESS1-1 5-ESS1-2. Construct a graph to reveal patterns of daily changes in length (metric) and direction of shadows, length of day and night, and the seasonal appearance of some stars in the night sky. 5-ESS1-2

Matter & Its Interactions

5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS1-1

5-PS1-2. Measure and graph metric quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total mass of matter is conserved. 5-PS1-2

5-PS1-3. Make observations and measurements to identify materials based on their properties. 5-PS1-3

5-PS1-4. Conduct an investigation to determine whether the mixing of two or more substances results in new substances. 5-PS1-4

**Ecosystems:
Interactions, Energy,
and Dynamics**

5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-LS2-1