

# Grade 1

Adopted 2016

## Energy 1.PS3

1. Make observations to determine how sunlight warms Earth's surfaces (sand, soil, rocks, and water). 1.PS3.1

## Waves and Their Application in Technologies for Information Transfer 1.PS4

1. Use a model to describe how light is required to make objects visible. Summarize how illumination could be from an external light source or by an object giving off its own light. 1.PS4.1
2. Determine the effect of placing objects made with different materials (transparent, translucent, opaque, and reflective) in the path of a beam of light. 1.PS4.2

## From Molecules to Organisms: Structures and Processes 1.LS1

1. Recognize the structure of plants (roots, stems, leaves, flowers, fruits) and describe the function of the parts (taking in water and air, producing food, making new plants). 1.LS1.1
2. Illustrate and summarize the life cycle of plants. 1.LS1.2
3. Analyze and interpret data from observations to describe how changes in the environment cause plants to respond in different ways. 1.LS1.3

## Ecosystems: Interactions, Energy, and Dynamics 1.LS2

1. Conduct an experiment to show how plants depend on air, water, minerals from soil, and light to grow and thrive. 1.LS2.1
2. Obtain and communicate information to classify plants by where they grow (water, land) and the plant's physical characteristics. 1.LS2.2
3. Recognize how plants depend on their surroundings and other living things to meet their needs in the places they live. 1.LS2.3

## Earth's Place in the Universe 1.ESS1

1. Use observations or models of the sun, moon, and stars to describe patterns that can be predicted. 1.ESS1.1
2. Observe natural objects in the sky that can be seen from Earth with the naked eye and recognize that a telescope, used as a tool, can provide greater detail of objects in the sky. 1.ESS1.2
3. Analyze data to predict patterns between sunrise and sunset, and the change of seasons. 1.ESS1.3

**Engineering  
Design** 1.ETS1

1. Solve scientific problems by asking testable questions, making short-term and long-term observations, and gathering information. 1.ETS1.1
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**Links Among  
Engineering,  
Technology, Science,  
and Society** 1.ETS2

1. Use appropriate tools (magnifying glass, basic balance scale) to make observations and answer testable scientific questions. 1.ETS2.1