

# Grade 1

Adopted 2022

## Earth and Space Sciences

### Earth's Place in the Universe

1. Use observations of the sun, moon, and stars to describe patterns that can be predicted. [EEP.1.1](#)
2. Make observations at different times of year to relate the amount of daylight to the time of year. [EEP.1.2](#)

## Life Science

### From Molecules to Organisms: Structures and Processes

1. 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. [LSM.1.1](#)
2. Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. [LSM.1.2](#)

## Physical Science

### Waves and Their Applications in Technologies for Information Transfer

1. Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. [PSW.1.1](#)
2. Make observations to construct an evidence-based account that objects can be seen only when illuminated. [PSW.1.2](#)
3. Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. [PSW.1.3](#)
4. Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. [PSW.1.4](#)

## Environmental Literacy and Sustainability

### Agricultural and Environmental Systems and Resources

1. Examine how people from different cultures and communities, including one's own, interact and express their beliefs about nature. [ELA.K2.1](#)
2. Categorize ways people harvest, re-distribute, and use natural resources. [ELA.K2.2](#)

### Environmental Literacy Skills

1. Explain ways that places differ in their physical characteristics, their meaning, and their value and/or importance. [ELE.K2.1](#)
2. Plan and carry out an investigation to address an issue in their local environment and community. [ELE.K2.2](#)

## Technology and Engineering

### Applying, Maintaining, and Assessing Technological Products and Systems

1. Analyze how things work. [TEA.K2.1](#)
  2. Identify and use everyday symbols. [TEA.K2.2](#)
  3. Describe qualities of everyday products. [TEA.K2.3](#)
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### Core Concepts of Technology and Engineering

1. Illustrate how systems have parts or components that work together to accomplish a goal. [TEC.K2.1](#)
  2. Safely use tools to complete tasks. [TEC.K2.2](#)
  3. Explain that materials are selected for use because they possess desirable properties and characteristics. [TEC.K2.3](#)
  4. Develop a plan in order to complete a task. [TEC.K2.4](#)
  5. Collaborate effectively as a member of a team. [TEC.K2.5](#)
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### Design in Technology and Engineering Education

1. Apply design concepts, principles, and processes through play and exploration. [TED.K2.1](#)
  2. Demonstrate that designs have requirements. [TED.K2.2](#)
  3. Explain that design is a response to wants and needs. [TED.K2.3](#)
  4. Discuss that all designs have different characteristics that can be described. [TED.K2.4](#)
  5. Illustrate that there are different solutions to a design and that none are perfect. [TED.K2.5](#)
  6. Demonstrate essential skills of the engineering design process. [TED.K2.6](#)
  7. Apply skills necessary for making in design. [TED.K2.7](#)
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### History of Technology

1. Discuss how the way people live and work has changed throughout history because of technology. [TEH.K2.1](#)
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### Impacts of Technology

1. Explain ways that technology helps with everyday tasks. [TEI.K2.1](#)
2. Illustrate helpful and harmful effects of technology. [TEI.K2.2](#)
3. Compare simple technologies to evaluate their impacts. [TEI.K2.3](#)
4. Select ways to reduce, reuse, and recycle resources in daily life. [TEI.K2.4](#)
5. Design new technologies that could improve their daily lives. [TEI.K2.5](#)

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### **Influence of Society on Technological Development**

1. Explain the needs and wants of individuals and societies. [TES.K2.1](#)
  2. Explore how technologies are developed to meet individual and societal needs and wants. [TES.K2.2](#)
  3. Investigate the use of technologies in the home and community. [TES.K2.3](#)
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### **Integration of Knowledge, Technologies, and Practices**

1. Apply concepts and skills from technology and engineering activities that reinforce concepts and skills across multiple content areas. [TEK.K2.1](#)
  2. Draw connections between technology and human experiences. [TEK.K2.2](#)
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### **Nature and Characteristics of Technology and Engineering**

1. Compare the natural world and human-made world. [TEN.K2.1](#)
2. Explain the tools and techniques that people use to help them do things. [TEN.K2.2](#)
3. Demonstrate that creating can be done by anyone. [TEN.K2.3](#)
4. Discuss the roles of scientists, engineers, technologists and others who work with technology. [TEN.K2.4](#)