

# Grade K

Adopted 2022

## Earth and Space Sciences

### Earth and Human Activity

1. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. [ESH.K.1](#)
2. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. [ESH.K.2](#)
3. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. [ESH.K.3](#)

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### Earth's Systems

1. Use and share observations of local weather conditions to describe patterns over time. [ESS.K.1](#)
2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. [ESS.K.2](#)

## Life Science

### From Molecules to Organisms: Structures and Processes

1. Use observations to describe patterns of what plants and animals (including humans) need to survive. [LSM.K.1](#)

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### Heredity: Inheritance and Variation of Traits

## Physical Science

### Motion and Stability: Forces and Interactions

1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object. [PSM.K.1](#)
2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull. [PSM.K.2](#)

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### Energy

1. Make observations to determine the effect of sunlight on Earth's surface. [PSE.K.1](#)
  2. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. [PSE.K.2](#)
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## 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](#)
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### 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](#)
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## 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](#)