

Understand the effects of weather and climate on the Earth's atmosphere

- Identify the importance of air and how it moves within the Earth's atmosphere
- Identify the different gases that make up air
- Explain air pressure and its effect on weather
- Explain the role of water vapor within the Earth's atmosphere
- Identify and use different instruments used to measure weather conditions
- Identify the different types of weather
- Identify the different types of clouds associated with different weather conditions
- Explain the role of Earth's rotation and revolution on the seasons
- Identify the causes of different climates on Earth

Understand the structure of a plant and how it helps it function in a specific environment

- Examine and identify the structures of different plants
- Explain how the structure of various plant parts corresponds to its function and aids its survival
- Illustrate the life cycle of different types of plants (ferns, flowering plants, etc.)

Understand that plants and animals work together in order to survive

- Identify plants and animals within a given habitat
- Recognize how body parts and behaviors help living things survive
- Identify food sources for different types of plants
- Explain the role of decomposers, producers, and consumers within a food web

Understand the relationship between the force and energy of electricity and magnetism

- Determine the types of materials that are attracted to magnets
- Observe magnetic fields
- Explain the attraction and repulsion of static electricity
- Recognize the difference between series and parallel circuits
- Identify examples of conductors and insulators
- Explain how chemical energy can be converted to electrical energy
- Explain electromagnetism

Understand how matter can change

- Differentiate atoms, elements, compounds, and substances
- Experience different ways of separating mixtures
- Recognize that there are differences between mixtures and solutions
- Use standard measurements to identify the mass, volume, and density of matter
- Identify chemical reactions