

Understand motions of the Sun, Moon, and Earth

- Describe the planets using at least two characteristics
- Describe the position of the planets in relationship to the sun
- Explain planetary orbits, including revolution, rotation, and distance
- Recognize that the Earth's tilt and revolution create the seasons
- Explain how constellations correlate with the seasons
- Identify the phases of the Moon
- Compare the characteristics of the Moon and Earth
- Compare solar and lunar eclipses

Understand Earth's land and the resources available on Earth

- Explain the ways the Earth's land can be changed
- Describe the cycle of evaporation, condensation, and precipitation
- Classify natural resources as renewable, nonrenewable, and inexhaustible
- List ways people use natural resources
- Explain the recycling process
- Understand the importance of conserving Earth's resources

Understand that everything around an animal has a direct affect on that animal

- Identify different occurrences that can lead to changes in a habitat
- Describe how living things depend on non-living things for survival
- Identify different factors that are important to different animals
- Describe how change in a habitat can affect an animal

Understand that organisms interact with their environment

- Describe the connection between an organism's characteristics, needs, and habitat
- Describe the different types of body structures that aid survival of a species
- Recognize that animal adaptation is necessary for survival
- Classify living things as producers, consumers, or decomposers
- Classify consumers as carnivores, herbivores, or omnivores
- Describe food chains and how they form food webs
- Explain factors that affect the food chain

Understand the properties of matter

- Identify the three states of matter and the physical and chemical properties of each state
- Identify what can cause a change in a state of matter
- Compare/Contrast the differences in density between various solids, liquids, and gases
- Recognize the difference between physical changes and chemical changes
- Measure the volume and mass of matter
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Understand forces, motion, and machines

- Recognize that different forces affect an object's motion
- Understand that machines make work easier
- Identify and classify simple and complex machines