

## Earth Science

### Atmosphere

Greenhouse Gases and Global Warming  
Humans and the Atmosphere  
Layers of the Atmosphere  
Natural Wonders in the Sky

### Weather and Climate

Blizzards  
Climate Types  
Clouds  
Drought  
Floods  
Forecasting Weather  
Hurricanes  
Measuring and Mapping Weather  
Tornadoes  
Weather and Climate  
Weather Patterns

### Geosphere

Erosion and Weathering  
Humans and the Earth  
Natural Wonders of the Earth  
Tectonic Plates  
What Is the Geosphere?

### Earth Materials

Fossils  
Igneous Rocks  
Metamorphic Rocks  
Minerals  
Rock Layers and the Rock Cycle  
Sedimentary Rocks  
Soil

### Natural Disasters

Avalanches  
Earthquakes  
Tsunamis  
Volcanic Eruptions

### Natural Resources

Natural Resources and the Environment  
Nonrenewable Resources  
Renewable Resources

### Hydrosphere

Humans and the Hydrosphere  
Natural Wonders in the Water  
What Is the Hydrosphere?

### Water Sources

Glaciers  
Lakes  
Oceans  
Streams and Rivers  
The Water Cycle

### Planets and the Solar System

#### Planets

Dwarf Planets  
Earth  
Jupiter  
Mars  
Mercury  
Neptune  
Saturn  
Uranus  
Venus

#### Stars and the Solar System

Asteroids, Meteors, and Comets  
Black Holes  
Space Exploration  
Stars and Constellations  
The Milky Way and Other Galaxies  
The Moon and Its Phases  
The Sun

## Life Science

### Genetics

Animal Cells  
Artificial Selection  
Cell Division  
Genes, Chromosomes, and DNA  
Genetic Mutations  
Heredity  
Plant Cells

### Human Anatomy

Organs  
The Senses  
Tissues

### Human Body Systems

Circulatory System  
Digestive System  
Endocrine System  
Excretory System  
Immune System  
Muscular System  
Nervous System  
Reproductive System  
Respiratory System  
Skeletal System

### Life in an Ecosystem

Deforestation  
Humans and the Biosphere  
Pollution  
What Is the Biosphere?

### Biomes

Caves  
Coniferous Forests  
Deserts

Grasslands  
Mountains  
Oceans  
Rain Forests  
Savannahs  
Temperate Forests  
Tundras  
Wetlands

### Food Chains and Webs

Biodiversity  
Food Chains  
Food Webs  
Invasive Species  
Life Cycles  
Photosynthesis

### Plants and Animals

#### Adaptation and Natural Selection

Adaptation  
Endangered Species  
Evolution  
Extinction  
Natural Selection

#### Traits and Behaviors

Camouflage  
Group Behavior  
Hibernation  
Inherited Traits  
Learned Traits  
Metamorphosis  
Migration  
Mimicry

## Physical Science

### Energy

Conservation of Energy  
Electricity and Currents  
Energy and Forces  
Light Energy  
Potential and Kinetic Energy  
Sound Energy  
Thermal Energy  
What Is Energy?

### Forces and Motion

Electromagnetism  
Friction  
Gravity  
Magnetism  
What Are Forces and Motion?

### Isaac Newton's Laws

Newton's 1st Law  
Newton's 2nd Law  
Newton's 3rd Law

### Matter

Atoms  
Elements and the Periodic Table  
Molecules and Compounds  
Properties of Matter

### States of Matter

Chemical Changes  
Gases  
Liquids  
Physical Changes  
Solids

### Waves

Light Waves  
Radio Waves  
Sound Waves  
Waves and Their Properties  
X-Rays

## The Field of Science

### Jobs in Science

Jobs in Earth Science  
Jobs in Life Science  
Jobs in Physical Science

### Science and Engineering Practices

Asking Questions and Defining Problems  
Constructing Explanations and Designing Solutions  
Information Technology  
Planning and Carrying Out Investigations

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