



EARTH SCIENCE

What Is the Lithosphere?

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

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

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

TECHNOLOGY AND SOCIETY

Cyberbullying
Cybersecurity

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