

How the World Works

An inquiry into the natural world and its laws; the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.

Central Idea: Investigation helps us identify traits and understand roles.

Key Concepts: Function, Causation, Form

Kindergarten

Related Concepts: Measurement, data

Lines of Inquiry:

- Matter
- Scientific observations
- Similarities and differences

Central Idea: Ecosystems are impacted by different factors and have significance in our lives.

Key Concepts: Connection, Change, Reflection

First Grade

Related Concepts:

Lines of Inquiry:

- Habitats
- Human interaction with nature
- Needs for survival and growth

Central Idea: Weather affects living and non-living things.

Key Concepts: Change, Causation, Connection

Second Grade

Related Concepts: Maps, Graphing, Measurement, Matter

Lines of Inquiry:

- Properties of air
 - Measuring weather
 - Observing weather
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Central Idea: Plants and humans are interdependent.

Key Concepts: Connection, Change, Causation

Third Grade

Related Concepts:

Lines of Inquiry:

- Discovering the development of plant life cycle
- Importance of compost
- Impact of bees for environmental conditions

Central Idea: Energy enhances the world.

Key Concepts: Change, Form

Fourth Grade

Related Concepts: Research, non-fiction writing

Lines of Inquiry:

- Magnetism
- Electricity
- Light

Central Idea: Scientific principles are used to predict weather.

Key Concepts: Function, Connection, Change

Fifth Grade

Related Concepts:

Lines of Inquiry:

- Weather patterns
 - The water cycle
 - How heat is transferred
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