

8th Grade Science Curriculum

Motion, Forces, and Energy

- Acceleration due to gravity and acceleration of free-falling objects
- Velocity and calculating velocity
- Momentum and inertia
- Newton's Laws of Motion
- Water rockets

Electricity and Magnetism

- AC/DC
- Circuits
- Making an electromagnet
- Electromagnetic motors

Exploring Earth's Weather

- Layers of the atmosphere
- Air masses and fronts
- Hurricanes, thunderstorms, and tornadoes
- Weather maps and symbols
- Cloud types
- Climate regions of the United States

Dynamic Earth

- Plate Tectonics
- Rocks and Minerals identification
- Weathering and erosion
- Soil profiles
- Interpreting topographic maps
- Topographic map construction

Evolution

- Fossil facts and identification
- Life in the geologic time scale
- Natural selection and adaptations
- Stromatolites and polar bears

General Topics

- Using a map and compass
- Orienteering
- Exotic species of the Great Lakes region