

5th Grade Science SOLs

Study Guides & Review Worksheets

Geology

Terms to Know

- Erosion:** The breaking down and changing of rocks and minerals due to natural processes.
- Strata:** The process of soil, rocks, and other sediments being carried away or moved by natural forces, such as wind, water, and ice.
- Deposition:** When bits of soil, rocks, and other sediments settle in a new place.

Layers of the Earth



The Earth has layers. Pressure and temperature increase the deeper you go below the Earth's surface.

- Crust:** The thin, outermost layer of the Earth. It is composed of rocks.
- Mantle:** The larger layer that is between the crust and the outer core. It is made of hot, semi-solid rock.
- Outer Core:** The liquid layer surrounding the inner core.
- Inner Core:** A solid sphere at the center of the Earth. It is made of materials such as iron and nickel.

Earth's Movements

Divergent Boundaries	Convergent Boundaries	Transform Boundaries
<ul style="list-style-type: none"> Plates move apart from each other. Results in volcanoes and magma formation. 	<ul style="list-style-type: none"> Plates move toward each other. Results in earthquakes and magma formation. 	<ul style="list-style-type: none"> Plates slide past each other. Results in earthquakes. 

Thermal Energy

Earth's thermal energy causes movement within the Earth. It creates currents in the mantle that move the Earth's tectonic plates. The plate movement you see at earthquakes, volcanoes, and magma formation.



Sources of Energy

Nonrenewable Energy

Nonrenewable energy sources are natural resources that cannot be replaced after they are used because they take millions of years to form.

Examples:

Fossil fuels are formed from the remains of ancient plants and animals.

Fossil fuels include:



Petroleum (oil)



Coal



Natural Gas

Air Pollution



Water Pollution

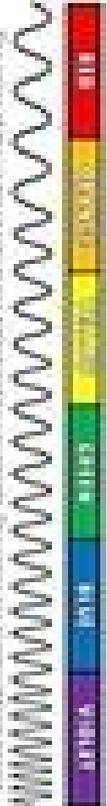


Conservation

Conservation is the careful use and protection of energy. Conservation of energy saves resources and reduces environmental damage.

- Turn off lights and electronics when leaving a room.
- Take shorter showers.
- Unplug unused devices.
- Use natural light.
- Recycle.
- Use energy-efficient light bulbs.
- Use energy-efficient appliances.
- Plant trees.

The Visible Spectrum



The colors of the visible light spectrum are ordered by wavelength. The color with the longest wavelength is red, and the color with the shortest wavelength is violet.

Sound Waves



Sound waves are longitudinal waves that travel through a medium.

Light Waves



Light waves are transverse waves that travel through a vacuum.

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Ying Liu



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