

5th Grade Science SOLs

Study Guides & Review Worksheets

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

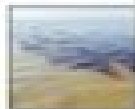


Natural Gas

Air Pollution



Water Pollution



Conservation

Conservation is the careful use and protection of energy, saving nonrenewable resources and conserving energy.

- Turn off lights and electronics
- Fix leaking pipes
- Take shorter showers
- Unplug unused devices
- Use natural light

- Live with water
- Reuse water
- Recycle
- Plant trees

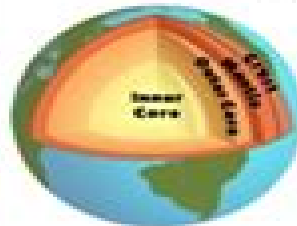
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Geology

Terms to Know

- **Weathering:** The breaking down and changing of rocks and minerals due to natural processes.
- **Erosion:** 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 solid rock.
- **Mantle:** The longest 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

- Plates move apart from each other.
- Results in volcanoes and mountain formation.



Convergent Boundaries

- Plates move toward each other.
- Results in earthquakes and mountain formation.



Transform Boundaries

- Plates slide past each other.
- Results in earthquakes.



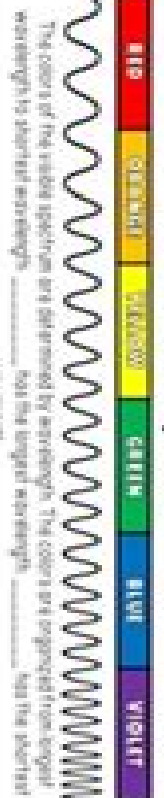
Thermal Energy

Earth's thermal energy causes movement within the Earth. It creates currents in the mantle that move the Earth's tectonic plates. This plate movement can result in earthquakes, volcanoes, and mountain formation.

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The Visible Spectrum



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

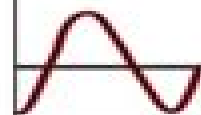
Wavelength

It travels in waves. Energy that can be seen by the eye is called light. The number of waves passing a point in a given amount of time is called frequency.

Amplitude: The height of a wave from its lowest part to its highest part.

Wavelength: The distance between two consecutive crests or troughs. A wavelength is the distance between two consecutive crests or troughs.

Wavelength on the visible spectrum



Energy

Energy is the ability to do work. It can be stored or transferred. Energy can be converted from one form to another.



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