

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
- Save energy
- Share ideas

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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



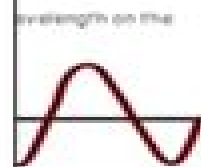
The colors of the visible spectrum are determined by wavelength. The color with the longest wavelength is red and the color with the shortest wavelength is violet.

Wavelength

It travels in waves. Energy that can be seen by the eye is called light. It is made of waves passing through space.

Light Waves: The highest and lowest part of a wave are called the crest and trough.

The distance between two crests or two troughs is called the wavelength. A wavelength is the distance between two crests or two troughs.



Energy



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Alabama Science Assessment Study Guide 5th Grade

Monty Neill



Alabama Science Assessment Study Guide 5th Grade:

Resources in Education ,2001-10 Resources in Education ,1997 *Testing Our Children* Monty Neill,1997

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to 7 percent in 2011 At 4 year colleges in 2011 nearly 90 percent of full time students at public and private nonprofit institutions were under the age of 25 However only about 29 percent of full time students at private for profit colleges were while 39 percent were between the ages of 25 to 34 and another 32 percent were 35 and older About 56 percent of male students and 61 percent of female students who began their bachelor s degree in the fall of 2005 and did not transfer had completed their degree by 2011 In that year there were 1 7 million bachelor s degrees and over 700 000 master s degrees awarded

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