

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 (e.g., use in garden)
- Share tools

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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

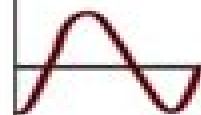


Wavelength is the distance between two crests or troughs of waves passing.

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

Frequency: The number of waves that pass a point in a given amount of time.

Wavelength on the



Energy



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Alabama Science Assessment Study Guide 5th Grade

Clifford Lane



Alabama Science Assessment Study Guide 5th Grade:

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

Research in Education ,1971 *Monthly Catalog of United States Government Publications* ,1984 *Monthly Catalogue, United States Public Documents* ,1992 American Universities and Colleges James J. Murray,2021-06-21 No detailed description available for American Universities and Colleges *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1973 *Research in Education* ,1972 The Condition of Education 2013 Susan Aud,Sidney Wilkinson-Flicker,2013-11-18 NOTE NO FURTHER DISCOUNT FOR THIS PRODUCT TITLE OVERSTOCK SALE Significantly reduced list price The Condition of Education 2013 summarizes important developments and trends in education using the latest available data The report presents indicators on the status and condition of education The indicators represent a consensus of professional judgment on the most significant national measures of the condition and progress of education for which accurate data are available To help inform policymakers and the public about the progress of education in the United States Congress has mandated that the National Center for Education Statistics NCES produce an annual report The Condition of Education This year s report presents 42 indicators of important developments and trends in U S education These indicators focus on population characteristics participation in education elementary and secondary education and postsecondary education Condition shows in 2012 about 90 percent of young adults ages 25 to 29 had a high school diploma or its equivalent and 33 percent had a bachelor s degree or higher As in previous years annual median earnings in 2011 were higher for those with higher levels of education for example 25 to 34 year olds with a college degree earned over twice as much as high school dropouts The Condition of Education 2013 includes the latest data available on these and more key indicators As new data are released the indicators will be updated and made available Along with these indicators NCES produces a wide range of reports and data to help inform policymakers and the American public about trends and conditions in U S education As this year s In 2011 almost two thirds of 3 to 5 year olds were enrolled in preschool and nearly 60 percent of these children were in full day programs At the elementary and secondary level there were about 50 million public school students in 2011 a number that is expected to grow to 53 million in the next decade Of these students nearly 2 million attended charter schools Postsecondary enrollment in 2011 was at 21 million students including 18 million undergraduate and 3 million graduate students NCES s newest data on elementary and secondary schools show that about one in five public schools was considered high poverty in 2011 meaning that 75 percent or more of their enrolled students qualified for free or reduced price lunch up from about one in eight in 2000 In school year 2009 10 some 3.1 million public high school students or 78.2 percent graduated on time with a regular diploma And in 2011 about 68 percent of recent high school completers were enrolled in college the following fall Meanwhile the status dropout rate or the percentage of 16 to 24 year olds who are not enrolled in school and do not have a high school diploma or its equivalent declined from 12 percent in 1990

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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