

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

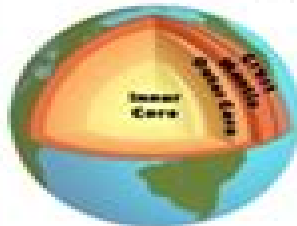
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Geology

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

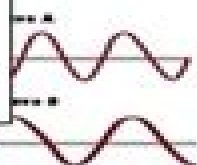
It travels in waves. Energy that can be seen is light. The number of waves passing

are waves. The highest and lowest part of a wave are the crest and trough.

Wavelength. A wavelength is the distance between two crests or two troughs. For example, the distance between two crests or two troughs is the wavelength.



Energy



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5th Grade Crct Science Study Guide

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5th Grade Crct Science Study Guide:

Mastering the Georgia 5th Grade CRCT in Science American Book Company,2014 *Increasing the Shared Personal Practices of Educators* Dr. Carmen J. Black,2010-09-17 There is no available information at this time **The Ultimate Atlanta School Guide 2004** Atlanta Journal-Constitution, The,David A. Milliron,2004 Atlanta Magazine ,2006-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region **Children's Books in Print, 2007** ,2006 **Children's Books in Print** R R Bowker Publishing,Bowker,1999-12 *Mastering the Georgia 5th Grade CRCT in Science* Liz Thompson,Michelle Gunter,2007 Georgia 5th Grade CRCT Science Test Preparation **Atlanta Magazine** ,2008-04 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region **Atlanta Magazine** ,2006-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region **Mastering the**

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Books in Print Supplement ,2002 *Mastering the Georgia 5th Grade CRCT in English/Language Arts* Mallory Grantham,Sara Hinton,2006-08-01 Georgia 5th Grade CRCT English Language Arts Test Preparation *Who's who in the Midwest* ,2005 *Mastering the Georgia 5th Grade CRCT in Mathematics* Day Erica,Colleen Pintozzi,American Book Company,Tanya Kelley,2005 Georgia 5th Grade CRCT Mathematics Test Preparation **Canadian Books in Print 2002** Edited by Butler Marian,Marian Butler,2002-02 Containing more than 48000 titles of which approximately 4000 have a 2001 imprint the author and title index is extensively cross referenced It offers a complete directory of Canadian publishers available listing the names and ISBN prefixes as well as the street e mail and web addresses **Who's Who in the West** Marquis Who's Who,2001-11

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