

5th Grade Science SOLs

Study Guides & Review Worksheets

Sources of Energy

Nonrenewable Energy

Nonrenewable energy resources 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 resources. It means using resources in a way that conserves them.

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

- Recycle paper and plastic.
- Recycle food scraps and yard waste.
- Use water-saving devices.
- Plant trees.

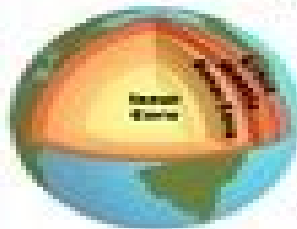
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Geology

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 lots 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 largest 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 magma formation.



Convergent Boundaries

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



Transform Boundaries

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



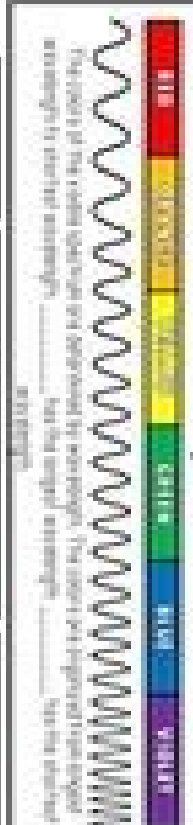
Thermal Energy

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 magma formation.

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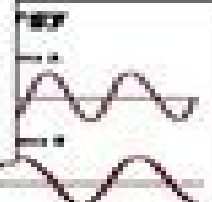
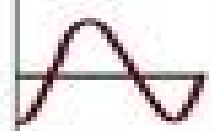


The Visible Spectrum



Wavelength is the distance between two peaks of a wave. It is measured in meters (m).

Frequency is the number of waves that pass a point in a given amount of time. It is measured in Hertz (Hz).



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C Cleary



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Table of Contents Grade 5 Science Study Guide

1. Understanding the eBook Grade 5 Science Study Guide
 - The Rise of Digital Reading Grade 5 Science Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 5 Science Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 5 Science Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 5 Science Study Guide
 - Personalized Recommendations
 - Grade 5 Science Study Guide User Reviews and Ratings

- Grade 5 Science Study Guide and Bestseller Lists
- 5. Accessing Grade 5 Science Study Guide Free and Paid eBooks
 - Grade 5 Science Study Guide Public Domain eBooks
 - Grade 5 Science Study Guide eBook Subscription Services
 - Grade 5 Science Study Guide Budget-Friendly Options
- 6. Navigating Grade 5 Science Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 5 Science Study Guide Compatibility with Devices
 - Grade 5 Science Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 5 Science Study Guide
 - Highlighting and Note-Taking Grade 5 Science Study Guide
 - Interactive Elements Grade 5 Science Study Guide
- 8. Staying Engaged with Grade 5 Science Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 5 Science Study Guide
- 9. Balancing eBooks and Physical Books Grade 5 Science Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 5 Science Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 5 Science Study Guide
 - Setting Reading Goals Grade 5 Science Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 5 Science Study Guide
 - Fact-Checking eBook Content of Grade 5 Science Study Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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