

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

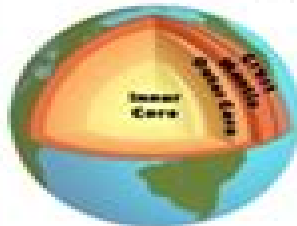
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Geology

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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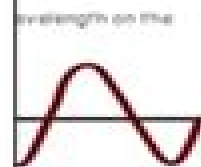


The Visible Spectrum



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

Frequency is the number of waves that pass a point in a given amount of time. The higher the frequency, the shorter the wavelength.



Energy



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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the Peterson's Guides Staff text.

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Table of Contents Oaa 5th Grade Science Study Guide

1. Understanding the eBook Oaa 5th Grade Science Study Guide
 - The Rise of Digital Reading Oaa 5th Grade Science Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Oaa 5th Grade 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 Oaa 5th Grade Science Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Oaa 5th Grade Science Study Guide
 - Personalized Recommendations
 - Oaa 5th Grade Science Study Guide User Reviews and Ratings
 - Oaa 5th Grade Science Study Guide and Bestseller Lists
5. Accessing Oaa 5th Grade Science Study Guide Free and Paid eBooks
 - Oaa 5th Grade Science Study Guide Public Domain eBooks
 - Oaa 5th Grade Science Study Guide eBook Subscription Services
 - Oaa 5th Grade Science Study Guide Budget-Friendly Options

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