

# 5<sup>th</sup> 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 saves nonrenewable resources and conserves energy.

- Turn off lights and electronics.
- Fix leaking pipes.
- Take shorter showers.
- Unplug unused devices.
- Use natural light.

- Line up trees.
- Plant native plants.
- Plant trees.

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### Geology

#### Terms to Know

- Metamorphing:** 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 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 mountain formation.



##### Convergent Boundaries

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



##### Transform Boundaries

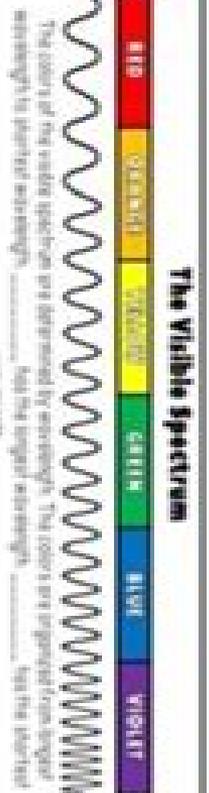
- Plates slide past each other.
- Results in earthquakes.



#### Thermal Energy

Earth's thermal energy causes movement within the Earth. If 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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travels in waves  
energy that can be  
of waves passing

waves. The highest  
lowest part of a  
lengths. A wavelength  
low each other. For  
is next crest OR  
is next trough.

wavelength on the

energy

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# Grade Sol Study Guide

**Siddappa N.Byrareddy**



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## **Table of Contents Grade Sol Study Guide**

1. Understanding the eBook Grade Sol Study Guide
  - The Rise of Digital Reading Grade Sol Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade Sol 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 Sol Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Sol Study Guide
  - Personalized Recommendations
  - Grade Sol Study Guide User Reviews and Ratings

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