

# 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 preservation of energy, saving non-renewable resources and conserving the environment.

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

- Live with water
- Replenish water resources in your summer
- 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 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. 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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# Grade 5 Science Study Guide

**Lingsheng Yao**



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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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