

# 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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# 5th Grade Science Fcat Study Guide

**Rachel Sandford**



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## **Table of Contents 5th Grade Science Fcat Study Guide**

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

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