

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

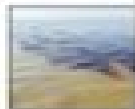


Natural Gas

Air Pollution



Water Pollution



Conservation

Conservation is the careful use and preservation of energy, saving nonrenewable 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
- Reuse water (e.g., use in garden)
- Share tools

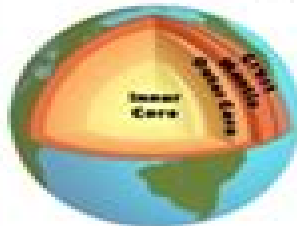
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Geology

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.



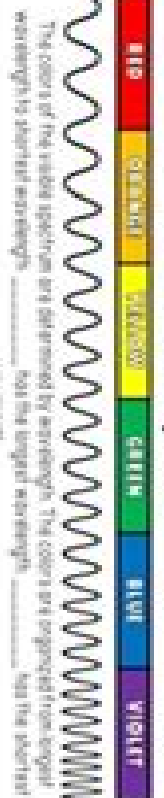
Thermal Energy

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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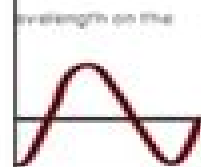


The Visible Spectrum



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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Science Study Guide Unit 6 5th Grade

A Gutmann



Science Study Guide Unit 6 5th Grade:

This book delves into Science Study Guide Unit 6 5th Grade. Science Study Guide Unit 6 5th Grade is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Science Study Guide Unit 6 5th Grade, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Science Study Guide Unit 6 5th Grade
 - Chapter 2: Essential Elements of Science Study Guide Unit 6 5th Grade
 - Chapter 3: Science Study Guide Unit 6 5th Grade in Everyday Life
 - Chapter 4: Science Study Guide Unit 6 5th Grade in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Science Study Guide Unit 6 5th Grade. The first chapter will explore what Science Study Guide Unit 6 5th Grade is, why Science Study Guide Unit 6 5th Grade is vital, and how to effectively learn about Science Study Guide Unit 6 5th Grade.
3. In chapter 2, the author will delve into the foundational concepts of Science Study Guide Unit 6 5th Grade. This chapter will elucidate the essential principles that must be understood to grasp Science Study Guide Unit 6 5th Grade in its entirety.
4. In chapter 3, the author will examine the practical applications of Science Study Guide Unit 6 5th Grade in daily life. This chapter will showcase real-world examples of how Science Study Guide Unit 6 5th Grade can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Science Study Guide Unit 6 5th Grade in specific contexts. This chapter will explore how Science Study Guide Unit 6 5th Grade is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Science Study Guide Unit 6 5th Grade. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Science Study Guide Unit 6 5th Grade.

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