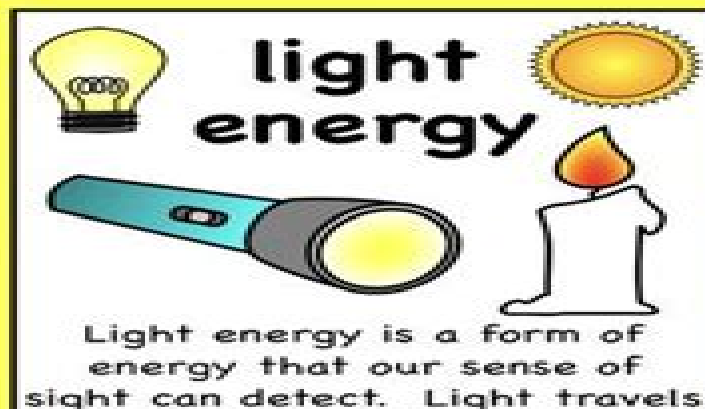


# Fourth Grade Physical Science

## *lesson plans with activities*



path a  
magnet

### Lesson 4: Light Energy (one day)

LEPS1-2: Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

1. Ask students to brainstorm again about what they know about light energy. Hopefully they will know that light is a form of energy that lets us see, it travels in a straight line, and that light energy starts with the sun. Pass out the worksheet: Investigating Light. You can have students look at the vocabulary words and try and complete the paragraph with a partner or in a small group by lightly recording their answers before the video to get an idea of their prior knowledge. Show the YouTube Video: Science Video for Kids: How Does Light Travel? (time: 7:05) Then have students go back and complete the worksheet. Discuss.
2. Explore how light energy can be transferred to make things move. You will need a strong light like a clamp on light and small solar objects. You can get a clamp on light for around \$8 at Lowes etc. Amazon sells little solar cars for \$9.99, and solar grasshoppers for \$1.99 (as of May 2018). Place one of the solar objects under the clamp on light. Turn it on and watch your object move.



Name: amanda kary Date: \_\_\_\_\_

### Investigating Light

Use the words in the box to complete the paragraph.

reflects	glass	absorb	transparent	refraction
straight	mirrors	opaque	translucent	water

Light travels in a straight line. When light hits something and bounces off it we say it reflects. Shiny objects like mirrors reflect a lot of light. Some objects don't reflect light. These things absorb light. Light can pass through some things like glass and water. This makes the light slow down and bend. This is called refraction. When light easily passes through something we say that these things are transparent. When some light passes through objects we say these objects are translucent. Objects that block are light are opaque.

1. Name of least one object that bends light to help us see better: glasses, cameras, microscopes, telescopes
2. What is one thing a laser can do? cut things, scan things
3. How do fiber optic cables help us? send email messages and phone messages

# Physical Science 4th Grade Chemistry Lesson Plans

**A Loxley**



## **Physical Science 4th Grade Chemistry Lesson Plans:**

The book delves into Physical Science 4th Grade Chemistry Lesson Plans. Physical Science 4th Grade Chemistry Lesson Plans is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science 4th Grade Chemistry Lesson Plans, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Physical Science 4th Grade Chemistry Lesson Plans
- Chapter 2: Essential Elements of Physical Science 4th Grade Chemistry Lesson Plans
- Chapter 3: Physical Science 4th Grade Chemistry Lesson Plans in Everyday Life
- Chapter 4: Physical Science 4th Grade Chemistry Lesson Plans in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Physical Science 4th Grade Chemistry Lesson Plans. The first chapter will explore what Physical Science 4th Grade Chemistry Lesson Plans is, why Physical Science 4th Grade Chemistry Lesson Plans is vital, and how to effectively learn about Physical Science 4th Grade Chemistry Lesson Plans.

3. In chapter 2, the author will delve into the foundational concepts of Physical Science 4th Grade Chemistry Lesson Plans. This chapter will elucidate the essential principles that need to be understood to grasp Physical Science 4th Grade Chemistry Lesson Plans in its entirety.

4. In chapter 3, this book will examine the practical applications of Physical Science 4th Grade Chemistry Lesson Plans in daily life. This chapter will showcase real-world examples of how Physical Science 4th Grade Chemistry Lesson Plans can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Physical Science 4th Grade Chemistry Lesson Plans in specific contexts. The fourth chapter will explore how Physical Science 4th Grade Chemistry Lesson Plans is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Physical Science 4th Grade Chemistry Lesson Plans. The final chapter will summarize the key points that have been discussed throughout the book.

This 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 Physical Science 4th Grade Chemistry Lesson Plans.

<https://crm.avenza.com/About/virtual-library/HomePages/Reset%20Maintenance%20Light%20Corolla%202005.pdf>

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### Physical Science 4th Grade Chemistry Lesson Plans Introduction

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