

**Grade 4 Science Worksheet: Sources and Properties of Light\_2**  
**(DifficultyLevel: Intermediate)**

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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**Section 1: Fill in the Blanks**

1. The bending of light when it passes through water or glass is called \_\_\_\_\_.
  2. \_\_\_\_\_ is the first color in a rainbow, and \_\_\_\_\_ is the last.
  3. The process of light bouncing back from a shiny surface is known as \_\_\_\_\_.
  4. A \_\_\_\_\_ can split white light into a rainbow.
  5. A flashlight's beam shows that light travels in a \_\_\_\_\_ line.
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**Section 2: Multiple Choice Questions (MCQs)**

1. **Which of these surfaces reflects light the best?**
  - a) Glass
  - b) Mirror
  - c) Cloth
  - d) Paper
2. **What happens when light passes through a glass prism?**
  - a) It reflects
  - b) It refracts and splits into colors
  - c) It absorbs
  - d) It disappears
3. **Which is an example of refraction?**
  - a) Light bouncing off a mirror
  - b) A rainbow forming after rain
  - c) Your shadow on the ground
  - d) Light traveling through space
4. **What color is NOT part of the rainbow?**
  - a) Indigo
  - b) Red
  - c) Pink
  - d) Green
5. **Why do we see our reflection in a mirror?**
  - a) Refraction
  - b) Absorption

- c) Reflection
  - d) Scattering
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### **Section 3: Short Answer Questions**

1. What is the difference between reflection and refraction? Provide an example of each.

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2. Explain how a rainbow is formed.

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3. Why does light split into different colors when passed through a prism?

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4. Describe an activity to show that light travels in a straight line.

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5. What happens to light when it hits a rough surface?

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### **Bonus Fun Activity:**

#### **Try This!**

Take a clear glass of water, place a pencil inside, and look at it from the side. Draw and describe what you observe.

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**-BE THE CHAMPION-**