

# Refraction: Bending Light

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## Understanding Light Waves

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

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

Answer the following questions based on the lesson about refraction.

1. What is the term for when light changes direction as it passes through different materials?

- A. Reflection
- B. Refraction
- C. Absorption

2. What happens to light when it enters a new material?

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3. Light travels in straight lines until it hits a new material.

- True       False

4. Refraction occurs when light passes through materials of different \_\_\_\_.

5. Why might God design light to behave in a predictable way?

- A. To confuse us
- B. To show His wisdom and order
- C. To make things complicated

6. Can you describe the pencil experiment? What did you observe?

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7. Refraction is only seen in glass and not in water.

- True       False

8. Proverbs 8:22-23 teaches us that God's wisdom is foundational and \_\_\_\_.

9. What can cause light to bend?

- A. Only air
- B. Different materials
- C. Only glass

10. Can you think of examples where light looks different through water or glass? Give at least one example.

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### Answer Key

1. Refraction   2. Light bends or changes direction when it enters a different material.   3. True   4. densities   5. To show His wisdom and order   6. In the pencil experiment, the pencil looked bent when placed in water due to refraction.   7. False   8. orderly   9. Different materials   10. An example is when you look at a straw in a glass of water, it looks broken or bent.