

Science Quiz 2- M2:L2: How Light Travels

Name: _____

MCQs

1. Which statement correctly explains why we see lightning before hearing thunder?
 - A. Sound travels faster than light
 - B. Light travels faster than sound
 - C. Sound and light travel at the same speed
 - D. Lightning produces no sound
 2. If the frequency of a light wave increases, what happens to its energy?
 - A. Decreases
 - B. Stays the same
 - C. Increases
 - D. Disappears
 3. A material that **completely blocks light** is:
 - A. Transparent
 - B. Translucent
 - C. Opaque
 - D. Reflective
 4. Which best explains why space appears dark?
 - A. Light cannot travel in space
 - B. There is no medium for light
 - C. Light travels but is not always reflected into our eyes
 - D. Light has no energy in space
 5. Which scenario best represents **translucent material**?
 - A. Looking through a clear window
 - B. Looking through frosted glass
 - C. Looking at a wooden door
 - D. Looking at a mirror
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Open-Ended

1. Explain how light travels from the Sun to Earth, including why it can move through space.

2. Compare **radio waves** and **gamma rays** in terms of energy and frequency.

