



# Waves: Light and Sound

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

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

Grade: Grade 4

## Part A: Multiple Choice

Circle the best answer for each question.

1. In Grade 4 science, what kind of waves do radios use to send music to listeners?

- A) Water waves
- B) Sound waves only
- C) Radio waves
- D) Earthquake waves

2. Grade 4: Morse code uses short and long \_\_\_\_ to spell out letters.

- A) Sounds or flashes
- B) Colors
- C) Smells
- D) Tastes

3. Grade 4 question: optical fibers are thin glass strands that carry information using what?

- A) Pulses of light
- B) Strong magnets
- C) Hot steam
- D) Loud noise

4. In Grade 4 lessons, a telephone changes your voice into a \_\_\_\_ that travels along wires.

- A) Signal
- B) Color
- C) Solid
- D) Shadow

## Part B: Fill in the Blank

Write the correct answer on each line.

1. In Grade 4 science, the system of dots and dashes used to send messages is called \_\_\_\_\_ code.
2. Grade 4: thin glass strings that carry pulses of light are called \_\_\_\_\_ fibers.
3. Sending a message from a sender to a receiver is called \_\_\_\_\_ in Grade 4 lessons.
4. An electrical message that carries information through wires is called a \_\_\_\_\_ in Grade 4 science.
5. The act of sending a wave or signal between two places is called \_\_\_\_\_ in Grade 4 lessons.

**Part A: Multiple Choice**

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1. In Grade 4 science, what kind of waves do radios use to send music to listeners?

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3. Grade 4 question: optical fibers are thin glass strands that carry information using what?

- A) **Pulses of light**
- B) Strong magnets
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- D) Loud noise

4. In Grade 4 lessons, a telephone changes your voice into a \_\_\_\_ that travels along wires.

- A) **Signal**
- B) Color
- C) Solid
- D) Shadow

**Part B: Fill in the Blank**

*Write the correct answer on each line.*

1. In Grade 4 science, the system of dots and dashes used to send messages is called Morse code.
2. Grade 4: thin glass strings that carry pulses of light are called optical fibers.
3. Sending a message from a sender to a receiver is called communication in Grade 4 lessons.
4. An electrical message that carries information through wires is called a signal in Grade 4 science.
5. The act of sending a wave or signal between two places is called transmission in Grade 4 lessons.