

Science Fables

The Heat That Traveled Three Ways

Story Quiz

This quiz follows Nina and Omar as they discover the three ways heat moves: conduction, convection, and radiation.

1. What is conduction?

- A. Heat moving through direct contact
- B. Heat moving only through space
- C. Heat moving because warm air rises
- D. Heat disappearing from an object

2. Why did the spoon handle become warm in the hot tea?

- A. Radiation from the Sun warmed it
- B. Conduction moved heat through the spoon
- C. Cooler air sank around it
- D. The spoon made its own heat

3. What happens during convection?

- A. Warm liquids or gases rise while cooler parts sink
- B. Heat moves only through solid objects
- C. Heat travels through empty space as waves
- D. Heat stops moving completely

4. How did the Sun warm the metal bench?

- A. By conduction
- B. By convection
- C. By radiation
- D. By evaporation

5. Which statement correctly matches all three types of heat transfer?

- A. Conduction uses direct contact, convection happens in liquids and gases, and radiation travels as waves
- B. Conduction happens only in air, convection needs no matter, and radiation uses direct contact
- C. Conduction and convection happen only in space
- D. Radiation happens only in water

Answer Key



1. A — Heat moving through direct contact

Conduction is heat moving through direct contact.

2. B — Conduction moved heat through the spoon

Conduction moved heat through the spoon, warming the handle in the hot tea.

3. A — Warm liquids or gases rise while cooler parts sink

During convection, warm liquids or gases rise while cooler parts sink.

4. C — By radiation

The Sun warmed the metal bench by radiation.

5. A — Conduction uses direct contact, convection happens in liquids and gases, and radiation travels as waves

Conduction uses direct contact, convection happens in liquids and gases, and radiation travels as waves.