

Science Fables

The Mystery of Heat and Temperature

Story Quiz

This quiz explores the difference between heat and temperature and how thermometers measure temperature.

1. What does temperature measure?

- A. How much space an object takes up
- B. How hot or cold something is
- C. How heavy an object is
- D. How quickly an object moves across a room

2. Which instrument is used to measure temperature?

- A. A ruler
- B. A balance
- C. A thermometer
- D. A measuring cup

3. What is heat?

- A. The transfer of thermal energy from a warmer object to a cooler object
- B. The amount of matter inside an object
- C. The space occupied by an object
- D. The color produced by a hot object

4. What happens when a warm object touches a cooler object?

- A. Heat moves from the cooler object to the warmer object
- B. Heat moves from the warmer object to the cooler object
- C. Both objects immediately freeze
- D. Their temperatures can never change

5. Which statement correctly explains the difference between heat and temperature?

- A. Heat and temperature always mean exactly the same thing
- B. Temperature measures hotness or coldness, while heat is energy moving between objects
- C. Heat is measured with a ruler, while temperature is measured with a scale
- D. Temperature moves between objects, but heat stays still

Answer Key



1. B — How hot or cold something is

Temperature measures how hot or cold something is.

2. C — A thermometer

A thermometer is used to measure temperature.

3. A — The transfer of thermal energy from a warmer object to a cooler object

Heat is the transfer of thermal energy from a warmer object to a cooler object.

4. B — Heat moves from the warmer object to the cooler object

When a warm object touches a cooler object, heat moves from the warmer object to the cooler object.

5. B — Temperature measures hotness or coldness, while heat is energy moving between objects

Temperature measures hotness or coldness, while heat is energy moving between objects.