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.