

Measuring Temperature II

Complete the following.

1. What is temperature? _____
2. What instrument is used to measure temperature? _____
3. What are the names of the three temperature scales? _____
4. Which temperature scale is usually used by scientists? _____
5. What is the SI unit of temperature? _____
6. At what temperature does the Kelvin scale begin? _____
7. Which scale is part of the English system of measurement? _____
8. Explain in your own words how the instrument used to measure temperature works.

Skill Challenge

Skills: using formulas, calculating

You can easily convert between Fahrenheit and Celsius temperature scales by using the following formulas.

$$(9 \div 5 \times C) + 32 = F$$

$$(5 \div 9) \times (F - 32) = C$$

Use the formulas to complete the table below. Round your answer to the nearest whole degree.

COMPARING TEMPERATURES		
Temperature	°F	°C
1. Freezing point of water	32	
2. Room temperature		8
3. Hot summer temperature	90	
4. Boiling point of water	212	
5. Cold winter temperature		-40

Answer Key

Measuring Temperature II

1. measure of the amount of heat energy something contains **2.** thermometer **3.** Kelvin, Fahrenheit, and Celsius **4.** Celsius **5.** Kelvin **6.** absolute zero or 0K **7.** Fahrenheit scale **8.** Most thermometers are glass tubes with a bulb at the bottom of the tube. The bulb is filled with a liquid, such as mercury. When heat is added, the liquid expands and rises in the glass tube. When heat is taken away, the liquid contracts and falls in the tube.

Skill Challenge

1. 0°C **2.** 72°F **3.** 32°C **4.** 100°C **5.** -4°F