

Name _____

Weather Watchers

Conversion Key (Use as Needed)

To convert **Fahrenheit to Celsius** ($^{\circ}\text{F} \rightarrow ^{\circ}\text{C}$): $(^{\circ}\text{F} - 32) \times 5/9$

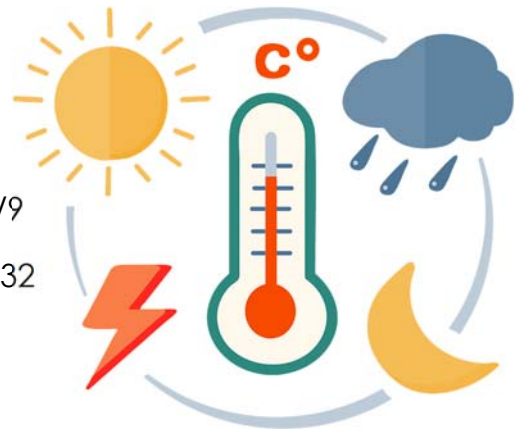
To convert **Celsius to Fahrenheit** ($^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$): $(^{\circ}\text{C} \times 9/5) + 32$

To convert **Celsius to Kelvin** ($^{\circ}\text{C} \rightarrow \text{K}$): $^{\circ}\text{C} + 273.15$

To convert **Kelvin to Celsius** ($\text{K} \rightarrow ^{\circ}\text{C}$): $\text{K} - 273.15$

To convert **Fahrenheit to Kelvin** ($^{\circ}\text{F} \rightarrow \text{K}$): $(^{\circ}\text{F} - 32) \times 5/9 + 273.15$

To convert **Kelvin to Fahrenheit** ($\text{K} \rightarrow ^{\circ}\text{F}$): $(\text{K} - 273.15) \times 9/5 + 32$



A. Forecasts Around the World

1. New York's temperature is **68°F**. Convert to **°C**. _____
2. London reports **15°C**. Convert to **°F**. _____
3. Moscow's winter day is **-10°C**. Convert to **°F**. _____
4. The desert in Dubai hits **122°F**. Convert to **°C**. _____

B. Global Science Reports

5. A lab records a freezing point of **273.15 K**. Convert to **°C**. _____
6. The same temperature in **°F** is what? _____
7. A volcano sensor detects **473.15 K**. Convert to **°C**. _____
8. The Arctic reports **-40°C**. Convert to **°F**. _____

C. Mixed Climate Comparisons

9. The Moon's night surface temperature is **100 K**. Convert to **°C** and **°F**. _____
10. A hot spring registers **95°C**. Convert to **°F** and **K**. _____

Bonus Challenge

11. The average surface temperature of Venus is **735 K**. Convert to **°C** and **°F**. _____