

Temperature Conversion Worksheet

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Part 1: Building a Foundation

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Which of the following is the freezing point of water in Celsius? Hint: Think about the temperature at which water turns to ice. ○ B) 0°C ○ C) 100°C OD) 273.15°C Which of the following is the freezing point of water in Celsius? Hint: Think about the temperature at which water freezes. ○ B) 0°C ○ C) 100°C OD) 273.15°C Which of the following are temperature scales? Hint: Consider the different ways temperature can be measured. A) Fahrenheit □ B) Celsius C) Kelvin D) Newton Which of the following are temperature scales?

Hint: Consider the commonly used temperature scales.

A) Fahrenheit



Write the formula for converting Fahrenheit to Celsius. Hint: Recall the mathematical relationship between these two scales. Write the formula for converting Fahrenheit to Celsius. Hint: Recall the formula used for conversion. List the boiling point of water in Fahrenheit, Celsius, and Kelvin. Hint: Think about the temperature at which water boils. 1. Boiling point in Fahrenheit	B) Celsius C) Kelvin D) Newton	
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	I. Boiling point in Fahrenheit	
Boiling point in Celsius	2. Boiling point in Celsius	
3. Boiling point in Kelvin	3. Boiling point in Kelvin	



Part 2: Understanding and Interpretation

If the temperature is 68°F, what is the equivalent in Celsius?
Hint: Use the conversion formula to find the answer.
○ A) 10°C
○ B) 20°C
○ C) 30°C
○ D) 40°C
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Hint: Use the conversion formula to find the answer.
○ A) 10°C
○ B) 20°C
○ C) 30°C
○ D) 40°C
Which of the following statements are true about the Kelvin scale?
Hint: Consider the properties and uses of the Kelvin scale.
A) It starts at absolute zero.
☐ B) It is used in scientific experiments.
C) 0 K is equivalent to -273.15°C.
D) It is commonly used in weather forecasts.
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Hint: Think about the role of temperature in experiments.



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Explain why accurate temperature conversion is important in scientific experiments	3.
Hint: Think about the implications of temperature on experimental results.	
Part 3: Application and Analysis	
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A scientist measures a temperature of 310 K. What is this temperature in Celsius?	
Hint: Use the conversion formula for Kelvin to Celsius.	
○ A) 36.85°C	
○ B) 37.85°C	
○ C) 38.85°C	
○ D) 39.85°C	
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○ C) 38.85°C ○ D) 39.85°C	
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You are baking a cake, and the recipe requires a temperature of 180°C. Which of the following are equivalent temperatures in Fahrenheit?
Hint: Use the conversion formula to find the equivalent Fahrenheit temperatures.
□ A) 356°F□ B) 350°F□ C) 320°F□ D) 212°F
You are baking a cake, and the recipe requires a temperature of 180°C. Which of the following are equivalent temperatures in Fahrenheit?
Hint: Use the conversion formula to find the equivalent temperatures.
□ A) 356°F□ B) 350°F□ C) 320°F□ D) 212°F
Describe a real-world scenario where converting temperatures between Celsius and Fahrenheit is necessary. Hint: Think about situations in daily life or specific industries.

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Analyze the following statements and select those that correctly describe the relationship between Celsius and Kelvin.
Hint: Consider the definitions and properties of both scales.
☐ A) 1°C is equal to 1 K.
B) The difference between freezing and boiling points of water is 100 units in both scales.
C) Kelvin is always 273.15 units higher than Celsius.
D) Kelvin is a more precise scale than Celsius.
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Hint: Consider the properties of both temperature scales.
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C) Kelvin is always 273.15 units higher than Celsius.
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Compare and contrast the Celsius and Fahrenheit scales in terms of their practical applications and historical origins.
Hint: Think about how each scale is used in different regions and contexts.

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Hint: Think about how each scale is used in different contexts.
Part 4: Evaluation and Creation
Which temperature each would be most engraphic for magazing outroms temperatures in appeal
Which temperature scale would be most appropriate for measuring extreme temperatures in space?
Hint: Consider the properties of the temperature scales.
O A) Celsius
B) Fahrenheit C) Kolvin
○ C) Kelvin○ D) Rankine
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Hint: Consider the properties of each temperature scale.
O A) Celsius
O B) Fahrenheit
○ C) Kelvin
O) Rankine
Evaluate the following scenarios and determine which require precise temperature conversions.
Hint: Think about the implications of temperature accuracy in various fields.
A) Cooking a new recipe.
☐ B) Conductin a chemical reaction.
C) Reporting weather forecasts.
D) Designing a spacecraft.

Hint: Think about the importance of accuracy in different contexts.

Evaluate the following scenarios and determine which require precise temperature conversions.



 A) Cooking a new recipe. B) Conductin a chemical reaction. C) Reporting weather forecasts. D) Designing a spacecraft. 	
Propose a new temperature scale that could be used for a specific industry or scientific field. Describe its key features and advantages over existing scales.	
Hint: Think about the needs of a specific field and how a new scale could address them.	
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Hint: Think about the needs of a specific industry.	