

# How To Do Temperature Conversion In Excel

	A	B	C
6	Celsius	Fahrenheit	Formula
7	10	=CONVERT(A7,"C","F")	
8	20	68	=CONVERT(A8,"C","F")
9	30	86	=CONVERT(A9,"C","F")
10	40	104	=CONVERT(A10,"C","F")
11	50	122	=CONVERT(A11,"C","F")
12	60	140	=CONVERT(A12,"C","F")
13	70	158	=CONVERT(A13,"C","F")
14	80	176	=CONVERT(A14,"C","F")
15	90	194	=CONVERT(A15,"C","F")
16	100	212	=CONVERT(A16,"C","F")

**How to do temperature conversion in Excel** is a common question for many users who want to efficiently handle temperature data in their spreadsheets. With Excel's powerful calculation capabilities, you can easily convert temperatures between Celsius, Fahrenheit, and Kelvin using simple formulas or built-in functions. In this article, we will explore various methods and techniques for temperature conversion in Excel, making your data analysis more efficient and straightforward.

## Understanding Temperature Scales

Before diving into the conversion methods, it's essential to understand the three primary temperature scales:

- **Celsius (°C):** A metric scale where 0°C is the freezing point of water and 100°C is the boiling point.
- **Fahrenheit (°F):** A scale primarily used in the United States, where 32°F is the freezing point and 212°F is the boiling point of water.
- **Kelvin (K):** An absolute temperature scale used in scientific contexts, where 0 K is absolute zero, equivalent to -273.15°C.

Understanding these scales will help you apply the correct formulas for conversion.

# Basic Temperature Conversion Formulas

To convert between different temperature scales, you can use the following formulas:

## Celsius to Fahrenheit

$$F = (C \times 1.8) + 32$$

## Fahrenheit to Celsius

$$C = (F - 32) / 1.8$$

## Celsius to Kelvin

$$K = C + 273.15$$

## Kelvin to Celsius

$$C = K - 273.15$$

## Fahrenheit to Kelvin

$$K = (F - 32) / 1.8 + 273.15$$

## Kelvin to Fahrenheit

$$F = (K - 273.15) \times 1.8 + 32$$

With these formulas in mind, let's look at how to implement them in Excel.

## Step-by-Step Guide to Temperature Conversion in Excel

You can perform temperature conversions in Excel using formulas directly in the cells. Here's how:

### Step 1: Set Up Your Excel Sheet

1. Open Excel and create a new worksheet.
2. Label the columns for clarity:
  - Column A: Temperature Value

- Column B: Original Scale (C, F, K)
- Column C: Converted Value
- Column D: Target Scale (C, F, K)

## Step 2: Input Your Data

Enter temperature values in Column A and their corresponding scales in Column B. For example:

A	B	C	D
25	C		F
77	F		C
300	K		F

## Step 3: Enter Conversion Formulas

In Column C, you will enter the formula for conversion based on the original and target scales:

1. Celsius to Fahrenheit: In cell C2, enter:

```

```excel
=IF(B2="C", (A2*1.8)+32, IF(B2="F", (A2-32)/1.8, (A2-273.15)*1.8+32))
```

```

2. Fahrenheit to Celsius: In cell C3, enter:

```

```excel
=IF(B3="F", (A3-32)/1.8, IF(B3="C", A3, A3-273.15))
```

```

3. Kelvin to Celsius: In cell C4, enter:

```

```excel
=IF(B4="K", A4-273.15, IF(B4="C", A4, (A4-32)/1.8))
```

```

You will need to modify these formulas based on the temperature scale specified in Column B and the desired scale in Column D.

## Step 4: Drag Down the Formulas

After entering the formulas for the first few rows, you can click on the lower-right corner of the cell (the fill handle) and drag it down to fill in the formulas for additional rows.

# Using Excel Functions for Temperature Conversion

While the manual formula method is effective, you can also create custom functions in Excel using VBA (Visual Basic for Applications) for more complex or frequent conversions. Here's how:

## Step 1: Open the VBA Editor

1. Press `ALT + F11` to open the VBA editor.
2. Click on `Insert` > `Module` to create a new module.

## Step 2: Write the Conversion Functions

You can create functions for each conversion:

```
```vba
Function CelsiusToFahrenheit(C As Double) As Double
    CelsiusToFahrenheit = (C * 1.8) + 32
End Function
```

```
Function FahrenheitToCelsius(F As Double) As Double
    FahrenheitToCelsius = (F - 32) / 1.8
End Function
```

```
Function CelsiusToKelvin(C As Double) As Double
    CelsiusToKelvin = C + 273.15
End Function
```

```
Function KelvinToCelsius(K As Double) As Double
    KelvinToCelsius = K - 273.15
End Function
```
```

After writing these functions, you can call them in your Excel worksheet just like built-in functions. For example, to convert Celsius to Fahrenheit, use:

```
```excel
=CelsiusToFahrenheit(A2)
```
```

## Conclusion

Knowing **how to do temperature conversion in Excel** can significantly enhance your data handling capabilities. Whether you prefer using straightforward formulas or custom VBA functions, Excel provides the tools you need for efficient temperature conversion. By following this guide, you

can streamline your workflow and ensure accurate temperature data analysis in your spreadsheets. With practice, these techniques will become second nature, making Excel an invaluable tool for all your temperature conversion needs.

## Frequently Asked Questions

### How can I convert Celsius to Fahrenheit in Excel?

You can convert Celsius to Fahrenheit using the formula:  $=(\text{Celsius} \times 9/5) + 32$ . Replace 'Celsius' with the cell reference containing the temperature.

### What formula do I use to convert Fahrenheit to Celsius in Excel?

To convert Fahrenheit to Celsius, use the formula:  $=(\text{Fahrenheit} - 32) \times 5/9$ . Replace 'Fahrenheit' with the cell reference containing the temperature.

### Is there a built-in function for temperature conversion in Excel?

Excel does not have a built-in function specifically for temperature conversion, but you can easily create your own formula using basic arithmetic operations.

### Can I convert Kelvin to Celsius in Excel?

Yes, to convert Kelvin to Celsius, use the formula:  $=\text{Kelvin} - 273.15$ . Replace 'Kelvin' with the cell reference containing the temperature.

### How do I convert multiple temperature values at once in Excel?

You can apply the conversion formula to the first cell, then drag the fill handle down to apply the formula to other cells in the column.

### What if I want to convert temperatures in a different unit, like Rankine?

To convert Rankine to Fahrenheit, use the formula:  $=\text{Rankine} - 459.67$ . For Rankine to Celsius, use:  $=(\text{Rankine} - 491.67) \times 5/9$ .

### Can I use Excel functions for conditional formatting based on temperature?

Yes, you can use conditional formatting with formulas to highlight cells based on temperature values, such as highlighting values above a certain threshold.

## How do I ensure my temperature conversion formulas update automatically?

Make sure your temperature conversion formulas reference the correct cells. Whenever you change the original temperature values, the converted values will update automatically.

## Is it possible to create a temperature conversion tool in Excel with a dropdown menu?

Yes, you can create a dropdown menu using Data Validation to select the conversion type (Celsius to Fahrenheit or vice versa) and use IF statements to apply the appropriate formula.

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