# Temperature Converter

Convert among Celsius, Fahrenheit and Kelvin using both the scale factor and the zero-point offset. Unlike lengths, temperatures cannot be converted using a scale factor alone.

Formula: F = C * 9/5 + 32; K = C + 273.15

INPUTS AND EXAMPLE VALUES

Temperature: 0

From scale: C; choices: C (Celsius (C)), F (Fahrenheit (F)), K (Kelvin (K))

To scale: F; choices: C (Celsius (C)), F (Fahrenheit (F)), K (Kelvin (K))

CHECK THE DEFAULT EXAMPLE

Temperature: 32 F

LIMITS AND CONVENTIONS

Inputs below absolute zero are rejected.

Kelvin is written K without the degree symbol.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/temperature-converter

NIST - SI Guide: conversion factors, Appendix B.8: https://www.nist.gov/pml/special-publication-811/nist-guide-si-appendix-b-conversion-factors/nist-guide-si-appendix-b8

Display precision is for reporting; keep unrounded values for later calculations. Verify units and conventions. This reference does not replace institution, employer or network rules.