

Temperature Equivalents

| Unit | Celsius | Fahrenheit | Kelvin | Rankine | Reaumur |
|------------|--|---|---|---|--|
| Celsius | - | $^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$ | $\text{K} = ^{\circ}\text{C} + 273.15$ | $^{\circ}\text{Ra} = (^{\circ}\text{C} \times 1.8) + 32 + 459.67$ | $^{\circ}\text{Re} = ^{\circ}\text{C} \times 0.8$ |
| Fahrenheit | $^{\circ}\text{C} = (^{\circ}\text{F} - 32) / 1.8$ | - | $\text{K} = (^{\circ}\text{F} + 459.67) / 1.8$ | $^{\circ}\text{Ra} = ^{\circ}\text{F} + 459.67$ | $^{\circ}\text{Re} = (^{\circ}\text{F} - 32) / 2.25$ |
| Kelvin | $^{\circ}\text{C} = ^{\circ}\text{K} - 273.15$ | $^{\circ}\text{F} = (^{\circ}\text{K} \times 1.8) - 459.67$ | - | $^{\circ}\text{Ra} = ^{\circ}\text{K} \times 1.8$ | $^{\circ}\text{Re} = (^{\circ}\text{K} - 273.15) \times 0.8$ |
| Rankine | $^{\circ}\text{C} = (^{\circ}\text{Ra} - 32 - 459.67) / 1.8$ | $^{\circ}\text{F} = ^{\circ}\text{Ra} - 459.67$ | $\text{K} = ^{\circ}\text{Ra} / 1.8$ | - | $^{\circ}\text{Re} = (^{\circ}\text{Ra} - 32 - 459.67) / 2.25$ |
| Reaumur | $^{\circ}\text{C} = ^{\circ}\text{Re} \times 1.25$ | $^{\circ}\text{F} = (^{\circ}\text{Re} \times 2.25) + 32$ | $\text{K} = (^{\circ}\text{Re} \times 1.25) + 273.15$ | $^{\circ}\text{Ra} = (^{\circ}\text{Re} \times 2.25) + 32 + 459.67$ | - |