

Converting meteorological units

It might be useful for you to know the conversion of units commonly used in meteorology for use in the classroom.

Fahrenheit to Celsius

To convert a Fahrenheit temperature reading to Celsius: first deduct 32 and then multiply the value you get by 5/9.

e.g. $59^{\circ}\text{F} = (59-32)\times(5/9) = 27\times 5/9 = 15^{\circ}\text{C}$.

Celsius temperature reading to Fahrenheit

To convert a Celsius temperature reading to Fahrenheit: first multiply by 9/5 and then add 32.

e.g. $20^{\circ}\text{C} = (20\times 9/5)+32 = 36+32 = 68^{\circ}\text{F}$.

To convert inches to millimetres

1 inch = 25.4 mm

To convert millimetres to inches

1 mm = 0.03937 inch

To convert wind-speed units:

[kt = knot; m/s = metres per second; kph = kilometres per hour; mph = miles per hour]

1 kt = 0.515 m/s and 1 m/s = 1.94 kt;

1 kt = 1.853 kph, so 1 kph = 0.54 kt;

1 kt = 1.152 mph, so 1 mph = 0.87 kt.