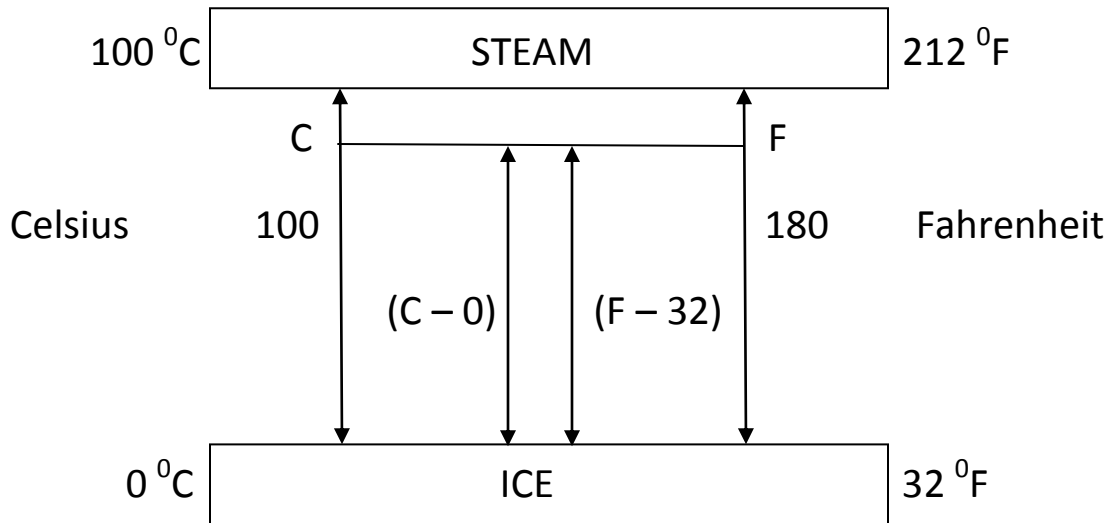


# Temperature Scales

## Degrees Celsius and Fahrenheit

Derivation of the Exact Relationship,  $F = 1.8C + 32$



Now, using proportions:

$$\frac{F - 32}{180} = \frac{C - 0}{100} \quad \text{why?}$$

$$\frac{F - 32}{C - 0} = \frac{180}{100} \quad \text{why?}$$

$$\frac{F - 32}{C} = 1.8 \quad \text{why?}$$

$$F - 32 = 1.8C \quad \text{why?}$$

$$F = 1.8C + 32 \quad \text{why? As required.}$$