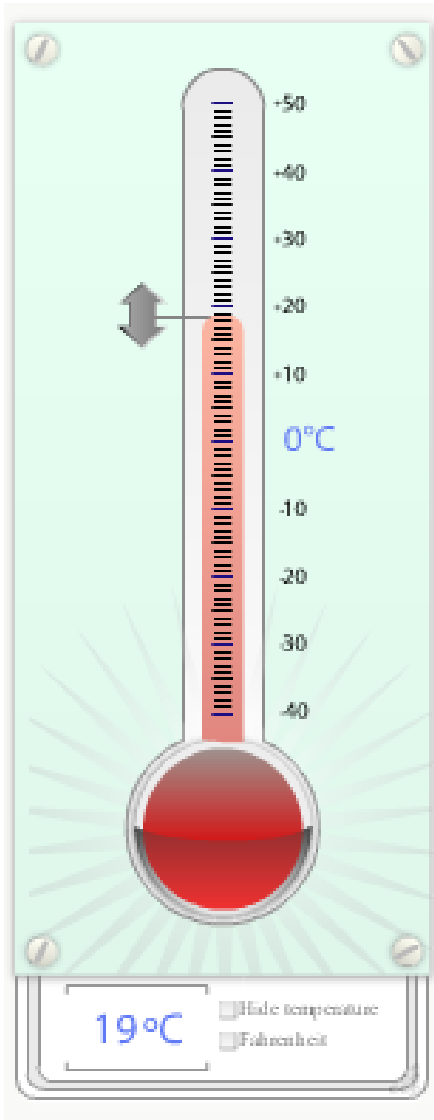


# Temperature

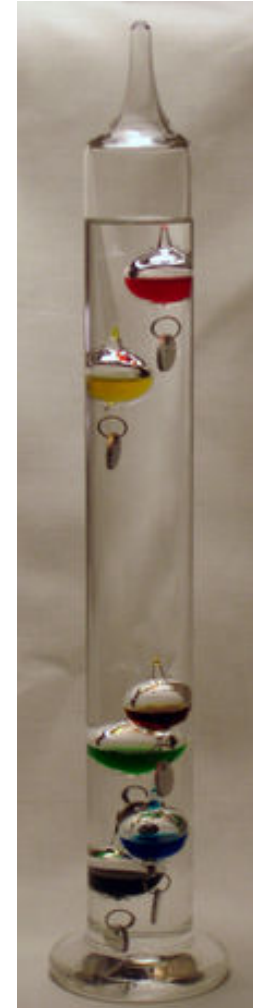


thermometer updated new components swf



*Thirty is hot*  
*Twenty is nice*  
*Ten is cool*  
*Zero is ice*

Celcius memory device

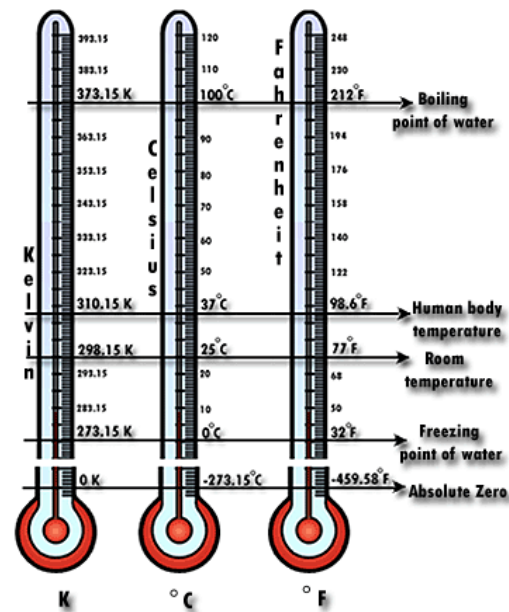


### Some baseline temperatures in the three temperature scales

temperature	kelvin	degree Celsius	degree Fahrenheit
symbol	K	°C	°F
boiling point of water	373.15	100.	212.
melting point of ice	273.15	0.	32.
absolute zero	0.	-273.15	-459.67

### Common temperature comparisons:

temperature	degree Celsius	degree Fahrenheit
symbol	°C	°F
boiling point of water	100.	212.
average human body temperature	37.	98.6
average room temperature	20. to 25.	68. to 77.
melting point of ice	0.	32.



# Temperature conversions between the three temperature scales:

## **kelvin / degree Celsius conversions (exact):**

- $\text{kelvin} = \text{degree Celsius} + 273.15$
- $\text{degree Celsius} = \text{kelvin} - 273.15$

## **degree Fahrenheit / degree Celsius conversions (exact):**

- $\text{degree F} = \text{degree C} \times 1.8 + 32.$
- $\text{degree C} = (\text{degree F} - 32.) / 1.8$

practice 424 1-4