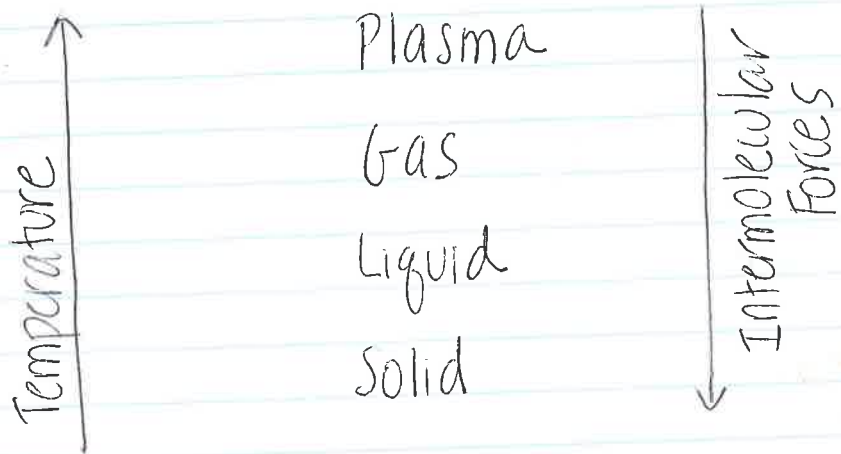


Solid \rightarrow gas skipping liquid phase
= sublimation

Plasma - matter becomes ionized as electrons are stripped away from atoms.



Gas \rightarrow Solid skipping liquid phase
= deposition.

Water Freezes $0^{\circ}\text{C} / 32^{\circ}\text{F}$
Boils $100^{\circ}\text{C} / 212^{\circ}\text{F}$

Temperature is a measure of kinetic energy or the motion of the molecules.

Absolute zero is -273°C or 0K
Point at which all molecular motion stops.

1) What is 98.6°F in $^{\circ}\text{C}$?

$$\left(\frac{5}{9}\right)(98.6^{\circ}\text{F} - 32) = 37.1^{\circ}\text{C}$$

2) What is 25°C in $^{\circ}\text{F}$?

$$\left(\frac{9}{5} \times 25^{\circ}\text{C}\right) + 32 = 77^{\circ}\text{F}$$

3) What is 10°F in $^{\circ}\text{C}$?

$$\left(\frac{5}{9}\right)(10^{\circ}\text{F} - 32) = -12^{\circ}\text{C}$$

1) What is 165K in °C?

$$165K - 273 = -108^{\circ}C$$

2) What is 1,000,000°C in K?

$$1,000,000^{\circ}C + 273 = 1,000,273K$$

3) What is 660°F in K?

$$\frac{5}{9}(660^{\circ}F + 460) = 622K$$