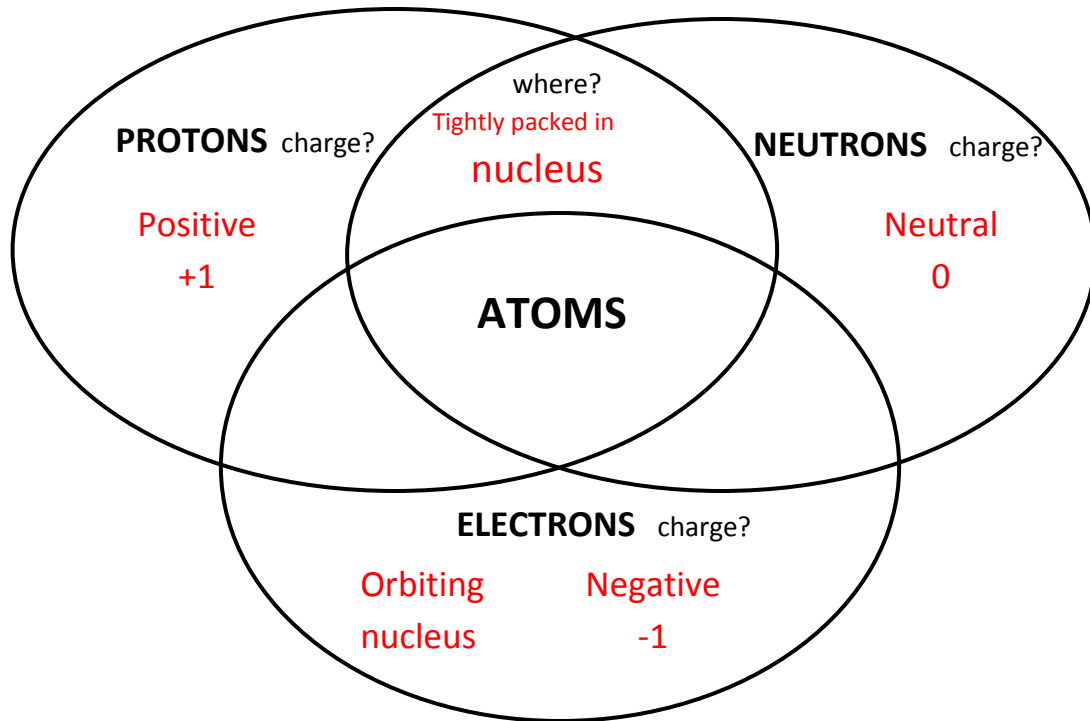
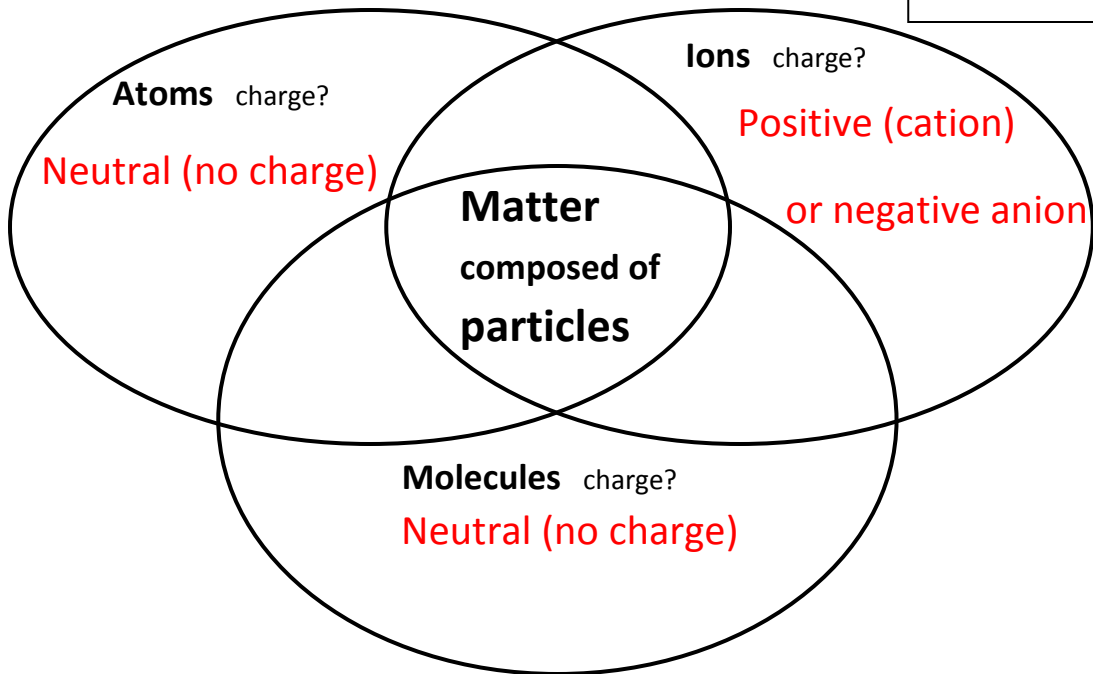


3 kinds of particles

Mass – definition
Amount of stuff measured in grams



Particle Model	Solid	Liquid	Gas
Particle freedom of movement	Vibrate in fixed position	Free to move to new position	
Particle spacing	As close as they can get		Widely spaced

Energy may be transferred between the system and the surroundings

Energy – definition Ability to do work
(exert a force to move a distance)

Kinetic Energy - definition
Energy of motion

Finish the equation.
 $KE = \frac{1}{2} mv^2$

At the particle level, this is all about **temperature**

Potential Energy - definition
Stored energy due to position

Finish the statement.
PE depends upon position

At the particle level, this is all about **attractions between particles**

