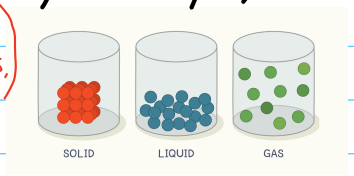
Particle Model of Matter (PMOM)

Everything is Matter

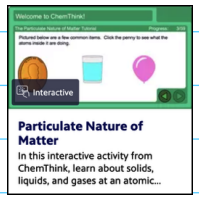
→ usually classified as solid, liquid, gas

(most common state of matter in universe... *plasma → solar winds, comet tails, northern lights)



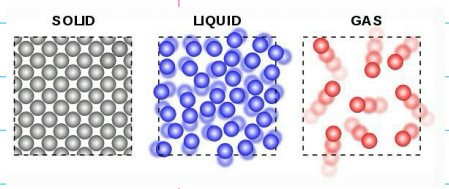
#1 - All Matter = tiny Particles

- More particles in a volume of solid than in the same volume of gas



https://www.pbslearningmedia.org/resource/lsps07.sci.phys.matter.naturematter/particulate-nature-of-matter/

#2 - the tiny particles are always moving/vibrating



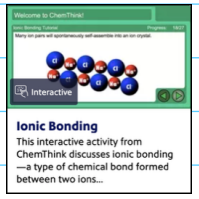
Solids = wiggle in place

Liquids = particles are sliding around/over each other.

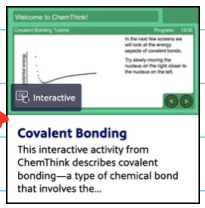
Gases = moving as far as the space allows

#3 - Particles may be attracted to each other or bonded together.

↳ some have stronger attractions than others



https://www.pbslearningmedia.org/resource/lsps07.sci.phys.matter.ionicbonding/ionic-bonding/

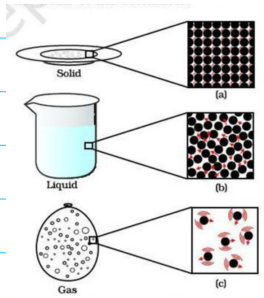


https://www.pbslearningmedia.org/resource/lsps07.sci.phys.matter.covalentbond/covalent-bonding/

#4. Particles have space between them

Less space — More space

Solids — Liquids — Gasses





What's the Matter?

https://www.pbslearningmedia.org/resource/18d31a25-7013-42cb-997f-2ba306e7b438/whats-the-matter-animation-unc-tv-science/

ScienceMax: States of Matter

https://www.youtube.com/watch?v=yvPWZKU0C9U

