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Sci.

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**Particle Theory of Matter Notes – the parts that matter**

* Matter
	+ Anything – weight and takes space
	+ Volume
		- Fills an area
	+ States
		- Solid
		- Liquid
		- Gas – eg: air
			* Can’t see it but…
				+ Takes up space – eg: air fills balloon
				+ Weight – full balloon weighs more than empty
* Particle Theory
	+ Everything is made of matter – what is matter made of?
		- Particles
	+ Solids
		- Made of part. – def. shape
	+ Liquid
		- Made of part. – indef. Shape
			* Particles move around
	+ Gas
		- Particles – lots of space that move around
	+ Change of states of matter
		- Particles move around – can change state
	+ Particles – what are they?
		- Atoms or molecules (groups of)
			* Atoms – basic elements
				+ Eg: helium, hydrogen, oxygen
				+ 
				+ Made of protons, neutrons, electrons
			* Molecules
				+ Atoms working together – eg: water
				+ Atoms are attracted to each other
				+ how close mol. Are means – solid, liq. – or gas
				+ 
				+ How fast mol. Move + their temp.

Faster = hotter and vice versa