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Sept. 22

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
        + Diagram, schematic

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        + 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
        + A picture containing shape

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        + How fast mol. Move + their temp.

Faster = hotter and vice versa