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| **What will we be learning?**  Particle Model of Matter | **Why this? Why now?**  AQA Combined Science - Physics  Properties of Matter – Chemistry  Atomic Structure – Physics  Energy 1 - Physics | **Key Words:**  Make sure you know the definitions of these keywords and use them in your answers.  Condensing  Evaporating  Boiling  Sublimating  Freezing  Latent Heat (of fusion and of vaporisation)  Specific heat capacity  Internal Energy  Kinetic Energy  Potential Energy |
| **What will we learn?**  Useful equations/formulae/maths skills for this unit:  Density = mass / volume  Energy = mass x specific heat capacity x change in temperature (given on formulae sheet)  Energy = mass x Latent heat (given on formulae sheet)  E = ItV (Energy = Current x time x potential difference)  Common Misconceptions: Particles in liquids and gases vibrate  Evaporation and boiling are the same thing.  Substances change temperature when changing state | |
| **What opportunities are there for wider study?**  Collins Revision guide relevant pages for this unit:  Triple: 84-85 Higher: 210-211 Foundation: 202-203  Environmental Science Structural Engineering Mechanical Engineering  Architect Nuclear Engineer Mining Engineer | |
| **How will I be assessed?**  Internal Energy Changes  Required Practical(s) for this unit: Calculating Densities | |