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| **What will we be learning?**Particle Model of Matter | **Why this? Why now?** AQA PhysicsProperties of Matter – ChemistryAtomic Structure – Physics Energy 1 - Physics | **Key Words:**Make sure you know the definitions of these keywords and use them in your answers.CondensingEvaporatingBoilingSublimatingFreezingLatent Heat (of fusion and of vaporisation)Specific heat capacityInternal EnergyKinetic EnergyPotential EnergyBoyle’s Law |
| **What will we learn?**Density = mass / volumeEnergy = 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)pV = Constant (Pressure x Volume = constant)Common Misconceptions: Particles in liquids and gases vibrateEvaporation 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: 202-203Environmental Science Structural Engineering Mechanical EngineeringArchitect Nuclear Engineer Mining Engineer |
| **How will I be assessed?**Deep Marking Task Title for this unit: Internal Energy ChangesRequired Practical(s) for this unit: Calculating Densities |