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| **What will we be learning?** Energy 1 | **Why this? Why now?**Energy 2Particle Model of Matter (specific heat capacity)AQA Combined & Separate Science - Physics | **Key Words:**Make sure you know the definitions of these keywords and use them in your answers.ExtensionElastic potential energyGravitational potential energyKinetic energyDissipatedEfficiencyConductionThermal transfer |
| **What will we learn?**Ep = mgh (Gravitational potential energy = mass x gravitational field strength x height)Ek= ½ mv2 (Kinetic Energy = ½ x mass x velocity squared)W = Fs (Work done is force x distance)Efficiency = useful energy transferred / total energy suppliedE = Pt (Energy = Power x time)Common Misconceptions: Power and Energy are the same thing |
| **What opportunities are there for wider study?**Collins Revision guide relevant pages for this unit:Triple: 26 – 28 Higher: 170-171 Foundation: 164-165Heating Engineer Extreme sports designer Fairground ride designerMaterials Developer Structural Engineering Mechanical EngineerArchitect |
| **How will I be assessed?**Deep Marking Task Title for this unit: End of Topic TestRequired Practical(s) for this unit: Determining Specific Heat Capacity Investigating thermal insulators |