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| **What will we be learning?**  Energy 1 | **Why this? Why now?**  Energy 2  Particle 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.  Extension  Elastic potential energy  Gravitational potential energy  Kinetic energy  Dissipated  Efficiency  Conduction  Thermal 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 supplied  E = 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: 164-165  Heating Engineer Extreme sports designer Fairground ride designer  Materials Developer Structural Engineering Mechanical Engineer  Architect | |
| **How will I be assessed?**  Deep Marking Task Title for this unit: End of Topic Test  Required Practical(s) for this unit: Determining Specific Heat Capacity  Investigating thermal insulators | |