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| **What will we be learning?**  Energy 2 | **Why this? Why now?**  GCSE Course: AQA Combined & Separate Science - Physics  Energy 1  Chemistry of the Atmosphere | **Key Words:**  Make sure you know the definitions of these keywords and use them in your answers.  Insulator  Conductor  Thermal Transfer  Biofuel  Hydroelectric  Renewable  Fossil fuel  Turbine  Generator  Geothermal  Photovoltaic  Greenhouse effect  Greenhouse gases |
| **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: Tidal energy is from the sun (it’s from the moon)  Nuclear power is renewable | |
| **What opportunities are there for wider study?**  Collins Revision guide relevant pages for this unit:  Triple: 29 Higher: 172-173 Foundation: 166-167  Environmental Science Structural Engineering Mechanical Engineering  Architect Nuclear Engineer Mining Engineer | |
| **How will I be assessed?**  Deep Marking Task Title for this unit: End of Topic Test  Required Practical(s) for this unit: None | |