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| **What will we be learning?**  **Energy transfer** | **Why this? Why now?**  Previous Learning  Current  Voltage  Future Learning  Energy Cost, Magnetism, electromagnetism  Enquiry Processes  Analyse Patterns, Draw conclusions, Present data, Justify opinions, Collect data, Present data, Plan variables | **Key Words:**  **Energy**  **Store**  **Transfer**  **Process**  **Useful**  **Total**  **Efficiency**  **Waste**  **Conservation**  **Kinetic**  **Elastic**  **Potential**  **Gravitational** |
| **What will we learn?**  The different stores of energy  How energy can be transferred between stores  Factors that affect how much energy an object has  The principle of conservation of energy  Efficiency  **Misconceptions in this topic**  Energy is truly lost in many energy transformations.  If energy is conserved, why are we running out of it?  Energy can be changed completely from one form to another (no energy losses).  Things use up energy.  An object at rest has no energy | |
| **What opportunities are there for wider study?**   * Architects. * Civil Engineers. * Construction and Building Inspectors. * Control and Valve Installers and Repairers. * Electrical Engineers. * Electricians. * Electronics Engineers. | |
| **How will I be assessed?**  End of unit test | |