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| **What will we be learning?****Work**High voltage with solid fill | **Why this? Why now?**Previous Learning Forces, Energy Future Learning Wave Properties, Heating & Cooling,Enquiry ProcessesIdentify Variables, Collect Data, Present Data, Analyse Patterns, Draw Conclusions, Justify opinions and conclusions.  | **Key Words:**WorkSimple MachinesLeverGearPivotEffort |
| **What will we learn?*** How to label a lever with load, pivot and effort.
* How to use the equation Work Done = Force x distance
* How to carry out an experiment to show the relationship between distance from a pivot and force produced.
* How to link the idea of the human arm as a lever and explain tendon attachment and force produced.
* How to extrapolate a graph.

**Misconceptions in this topic*** Some people think that energy can be lost or used up, energy is always conserved but may be transferred to a different energy store.
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| **What opportunities are there for wider study?**Careers - Engineer, Architect, Construction, Civil Engineering, Aviation, Automotive Engineer, Car mechanic, Production Engineer.STE(A)M – For details of courses and opportunities look at:<https://highcliffe.sharepoint.com/sites/LearnSTEM> |
| **How will I be assessed?**End of Topic Assessment |