

Year 8

Design & Technology

Magnetism
Magnets
Field Lines
Electromagnets

Electricity
Static
Resistance
Power Stations & National Grid
Cost Of Electricity

Sound & Light
How We Hear/See
Reflection, Refraction &
Dispersion

Work Done
Power & Work
Sankey Diagrams
Heat Transfer
Insulation



Knowledge	Attributes / Character	Skills	Experiences
<p>Work Done Sound and Light Electricity Magnetism</p>	<p>Confidence Students will be building on the foundation of learning from year 7. Part of this includes applying their knowledge to new scenarios, such as how electricity can be incorporated into magnetism.</p> <p>Organisation Just as with year 7 students are given multiple opportunities to work in groups for practical work. Homework is set on a regular basis and helps reinforce the knowledge students have learnt, students need to ensure it is complete.</p> <p>Resilience Students will need to overcome various challenges when completing a full investigation in magnetism involving equipment, safety, data and many other areas.</p> <p>Empathy As part of studying sound, students will look at how the ear functions, and how things such as hearing aids help people.</p>	<p>Draw more detailed and informed conclusions Use correct units Select appropriate equipment for practicals Independently follow methods Identify anomalies Rearranging simple algebraic formulas Unit conversions</p>	<p>Science club Thinktank visit Crime scene investigation project British Science Week Design and technology links Science Trust Quiz</p>