

Subject	Year	Term										
Science	8	2										
Topic												
8P2 Energy												
Content (Intent)												
Prior Learning (Topic) Y6 Light and Electricity												
<ul style="list-style-type: none"> • What is energy? • Energy transfers • Heat flow • Conduction, convection and radiation • Insulation • Work • Levers and pulleys • Fuels and food • Energy resources • Power • Energy bills 												
Future Learning (Topic) Y9 P1a Energy												
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)											
<p>Demos: Conduction, convection and radiation.</p> <p>Practical work: Circus of energy transfers. Investigating heat transfer and insulation. Investigating energy stored in fuels and food. Investigating human power. Required practical Solar cells.</p> <p>Written: Notes in book. Research of different energy resources.</p>	<p>- 2 x standard homeworks (Level given. Written feedback. Response expected.)</p> <p>-1 x end of topic test (Level given. Verbal feedback to class and individuals.)</p> <p>Optional:</p> <p>-Results tables (headings, units, repeats, decimal places, IV and DV): in exercise book. Marked and feedback given.</p> <p>- How does a lava lamp work? Write answer in exercise book. Marked and feedback given</p>											
How can parents help at home?												
<p>Look at the topic specific resources on the VLE</p> <p>Use appropriate youtube channels: cognito, primrosekitten, khan academy, freesciencelessons.</p> <p>Take an interest! Ask your children what they have learnt and be curious with them.</p>												
Helpful further reading/discussion												
<p>Reading</p> <p>Book: There is no Planet B, Mike Berners-Lee</p> <p>Web: https://www.funkidslive.com/tag/national-grid/</p>	<p>Vocabulary Lists</p> <table border="0"> <tr> <td>Energy</td> <td>Power</td> </tr> <tr> <td>Transfer</td> <td>Work done</td> </tr> <tr> <td>Conduction</td> <td>Convection</td> </tr> <tr> <td>Convection</td> <td>Radiation</td> </tr> <tr> <td>Renewable</td> <td>Non - renewable</td> </tr> </table>	Energy	Power	Transfer	Work done	Conduction	Convection	Convection	Radiation	Renewable	Non - renewable	<p>Careers Links</p> <p>Physicist Engineer Environmental engineering Energy companies</p>
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