

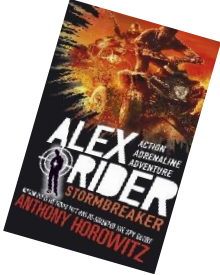


# Topic Plan

Year 6		
Autumn 1 – ‘Say Watt’ – Technology and Electricity		
Key Skills	Key Facts	Key Vocabulary
<ul style="list-style-type: none"> <li>• To know that electricity is a form of energy made up of electrons, protons and neutrons.</li> <li>• To investigate potential difference.</li> <li>• To create a series circuit with a switch.</li> <li>• To investigate the effects and consequences of changing circuit components and batteries.</li> <li>• Create changes in tones, shade or intensity by overlapping colours.</li> <li>• Transpose an image using tracing paper.</li> <li>• Use maps, atlases, globes and digital/computer mapping to locate countries and describe features.</li> <li>• Use a range of resources to identify the key physical and human features of a location.</li> </ul>	<ul style="list-style-type: none"> <li>• Atoms have a nucleus containing neutrons and protons (+) electrons (-) orbit around the central nucleus.</li> <li>• A closed series circuit means electric current follows one path.</li> <li>• If the positive and negative terminals of a battery are joined by a wire, then electrons will flow. We call this current.</li> <li>• The rocks that form the Lake District have both changed location and appearance over millions of years.</li> <li>• Poland has an undulating terrain ranging from the sandy beaches of the Baltic coast in the north to the stunning mountain formations in the south of the country.</li> <li>• Jamaica, according to the National Geographic, is the tip of a mountain that rises from the sea floor. This mountain was formed by early volcanic eruptions, but submerged about 40 - 25 million years ago. About 10 -12 million years ago, the island remerged as a result of tectonic uplift of the Caribbean Plate.</li> </ul>	<ul style="list-style-type: none"> <li>• Electricity - anything involving the position or movement of charge. Not the same as current</li> <li>• Element - the simplest form a substance made from identical atoms. It cannot be split into anything simpler.</li> <li>• Energy - the ability to make something happen measured in Joules (J)</li> <li>• Charge - a basic property of the Universe. There are two types + and -</li> <li>• Current - the flow of charge caused by a potential difference</li> <li>• Induce - to cause something to happen</li> <li>• Potential difference - energy transferred to/from charge</li> <li>• Transfer - move from one place to another</li> <li>• Voltage - the old name for potential difference (this term is no longer used)</li> </ul>
Key Figures/Places	Reading and Writing Links	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><i>Still Life: Autumn Fashion</i> by Patrick Caulfield (1978)</p> </div> <div style="text-align: center;">  <p><i>La Cafetiere</i> by Pablo Picasso (1943)</p> </div> </div>	<p>Our class novel this term is Stormbreaker written by Anthony Horowitz.</p> <div style="text-align: right;">  </div>	