

## Resistant Materials - Knowledge Organiser – Environment

<p><b>1. What are renewable resources? Give examples.</b></p> <p>Renewable energy resources will <i>not</i> run out.</p> <ul style="list-style-type: none"> <li>• Wind</li> <li>• Solar</li> <li>• Geothermal</li> <li>• Hydroelectric</li> <li>• Wood/Biomass</li> <li>• Wave</li> </ul>	<p><b>2. What are the advantages of using renewable energy?</b></p> <p>Renewable energy sources (except for Biomass) do not produce atmospheric emissions.</p> <p>They are non-polluting.</p>
<p><b>3. What are the disadvantages of renewable energy?</b></p> <ul style="list-style-type: none"> <li>• Wind &amp; solar not always available.</li> <li>• Energy output is small.</li> <li>• Initial set up costs can be expensive.</li> <li>• Hydroelectric means that large dams must be built and can disrupt wildlife.</li> </ul>	<p><b>4. What are non-renewable resources? Give examples.</b></p> <p>Non-renewable resources are those that have been extracted from the earth and will not be replenished. They will run out. There is a <i>finite</i> amount.</p> <ul style="list-style-type: none"> <li>• Coal (fossil fuel)</li> <li>• Oil (fossil fuel)</li> <li>• Gas (fossil fuel)</li> <li>• Nuclear</li> </ul>
<p><b>5. What are the disadvantages of fossil fuels?</b></p> <p>Fossil fuels are extracted from the earth and once they have been used, they cannot be replenished.</p> <p>They are a <i>finite</i> resource. They will run out.</p>	<p><b>6. What is Fairtrade?</b></p> <p>Fairtrade is an initiative that ensure that materials are sourced from organisations that support their workers. This could mean:</p> <ul style="list-style-type: none"> <li>• Good rates of pay</li> <li>• Safe working conditions</li> <li>• Support the local economy.</li> </ul>
<p><b>7. What is meant by Carbon Footprint?</b></p> <p>Carbon footprint is the measure of the amount of greenhouse gases released as a result of our activities (driving cars, flying away on holiday, heating our homes).</p>	<p><b>8. How can you become carbon neutral?</b></p> <p>Some companies become carbon neutral by planting trees to help absorb and counteract the amount of CO<sub>2</sub> they put in to the atmosphere.</p> <p>Being carbon neutral means they do not contribute to CO<sub>2</sub> emissions.</p>
<p><b>9. What is a life cycle analysis?</b></p> <p>A life cycle analysis is carried out to assess the environmental impact of a product from the start to the end of its life.</p> <p>It looks and materials, energy and the transportation to see how damaging it can be on the environment.</p>	<p><b>10. What are the 6 R's of sustainability?</b></p> <ul style="list-style-type: none"> <li>• Reuse</li> <li>• Recycle</li> <li>• Reduce</li> <li>• Repair</li> <li>• Rethink</li> <li>• Refuse</li> </ul>