

Science KS3 Assessment Framework

	Beginning Grade 1	Working Towards Grade 2-3	Expected Grade 4-5	Exceeding Grade 6-7	Excelling Grade 8-9
Energy	<p>I can:</p> <p>Identify energy values for food and fuels.</p> <p>Name renewable and non-renewable energy resources.</p> <p>State the definitions of energy and power.</p>	<p>I can:</p> <p>Describe energy requirements in different situations.</p> <p>Compare the energy values of food and fuels.</p> <p>State one advantage and one disadvantage of fossil fuels.</p> <p>Describe the difference between a renewable and a non-renewable energy resource.</p> <p>State that power, fuel used, and cost are linked.</p>	<p>I can:</p> <p>Interpret data on food intake for some activities.</p> <p>Compare the energy in food and fuels with the energy needed for different activities.</p> <p>Describe how electricity is generated using a fossil fuel or a renewable resource.</p> <p>Compare renewable and non-renewable resources.</p> <p>Predict which equipment is more powerful when given a selection of appliances.</p> <p>Explain the difference between energy and power.</p> <p>Compare the power consumption of different appliances.</p>	<p>I can:</p> <p>Calculate energy requirements for various situations, considering diet and exercise.</p> <p>Suggest different foods needed in unusual situations, for example, training for the Olympics.</p> <p>Explain the advantages and disadvantages of different energy resources.</p> <p>Explain how a range of resources generate electricity, drawing on scientific concepts.</p> <p>Describe the link between power, fuel use, and cost of using domestic appliances.</p> <p>Predict the power requirements of different home devices, and compare their energy usage and how much they cost to run.</p>	<p>I can:</p> <p>Explain why an athlete needs more energy from food using data provided.</p> <p>Suggest actions a government or communities could take in response to rising energy demand.</p> <p>Calculate and compare energy costs in different scenarios.</p> <p>Predict the effect on energy bills of changing the power of equipment.</p>