

### Year 8 Chemistry Progression Grid

<b>Outcomes</b>	<b>Combustion</b>	<b>Periodic table</b>	<b>Rocks</b>
<b>Emerging</b>	State the meaning of 'fuel and combustion'.	Must recall that elements have different physical properties	I can name some resources that humans use from the Earth and I can describe what it means for these resources to be limited.
<b>Developing</b>	Identify the factors in the 'fire triangle'.	Describe how chemical reactions are different to physics changes.	I can describe how the three types of rock are formed and differences between them
<b>Secure</b>	Explain how to measure the energy produced by different fuels.	State what happens at a material's melting, freezing and boiling points	I can list and describe the parts that make up the Earth's structure, and label these parts on a diagram.
<b>Advanced</b>	Describe how acid rain and the greenhouse effect happen	Recall there is a regular gradation on chemical properties as you go down a group	I can explain in detail how the three different types of rocks are formed, with reference to factors that may alter the appearance and properties of these rocks.
<b>Excelling</b>	Evaluate the link between global temperature and levels of carbon dioxide in the atmosphere.	Describe how the sizes of atoms change in the groups and periods of the periodic table.	I can link the formation of rocks together to describe and explain the rock cycle in detail.