

## Year 7 Chemistry Progression Grid

<b>Outcomes</b>	<b>Mixtures and Separation</b>	<b>Acids and Bases</b>	<b>Particle Model</b>	<b>Atoms, Elements and Molecules</b>
<b>Emerging</b>	I can describe pure substances and mixtures, including dissolved substances.	I can state that different acids and alkalis may have different strengths.	I can name some examples of solids, liquids and gases.	I can identify some elements from the periodic table.
<b>Developing</b>	I can identify simple techniques for separating mixtures and select appropriate techniques for separating given mixtures.	I can state the purpose of an indicator and describe how Universal indicator is used to find the strength of an acid or alkali using the pH scale.	I can state that different materials have different properties and I can describe some of these properties.	I can list examples of atoms, elements and compounds.
<b>Secure</b>	I can describe how to carry out simple techniques for separating mixtures.	I can represent chemical reactions using word equations.	I can explain the properties of the three states of matter with reference to the particle model.	I can represent elements using chemical symbols.
<b>Advanced</b>	I can explain how simple techniques for separating mixtures work.	I can represent various chemical reactions using formulae and symbol equations.	I can explain why mass is conserved during changes of state and chemical reactions.	I can represent compounds using chemical formulae.
<b>Excelling</b>	I can suggest some applications for making substances impure.	I can compare the strengths of strong and weak acids and alkalis.	I can describe diffusion, and explain how diffusion happens, in terms of the particle model.	I can explain the law of conservation of mass.