



<p><i>Deliberate and specific retrieval of expected prior knowledge (be specific)</i></p> <p>Retrieval should occur regularly throughout the learning journey:</p> <ul style="list-style-type: none"> • Discuss whether materials in the periodic table are solids, liquids or gases • Observe that some materials change state when they are heated or cooled – metals/non-metals (link to burning magnesium exp) • Using test results to make predictions to set up further comparative and fair tests 	<p><i>Academic transformation (be specific)</i></p> <p>Your core curriculum must do all of the following:</p> <p>What is your ambitious core curriculum to intellectually transform <u>our</u> students?</p> <ul style="list-style-type: none"> • Recap elements, compounds and mixtures. Look at the periodic table and recap groups and periods • Comparing the properties of metals and non-metals • Describe the properties and trends of group 1 and compare them to typical properties of metals • Describe the properties and trends of group 7 • Use knowledge of reactivity to explain displacement reactions using group 7 elements • Describe properties of group 0 • Look at principles underpinning the Mendeleev Periodic Table <p>Scientific skills</p> <ul style="list-style-type: none"> - Reasoning and discussion on scientific theories - Writing word and symbol equations - Recording data <p>Maths skills</p> <ul style="list-style-type: none"> - Balancing equations 	<p><i>Personal transformation (2 or 3)</i></p> <ul style="list-style-type: none"> • Mendeleev was the first to publish a version of the table that we would recognise today, but does he deserve all the credit? <p>Ambitious vocabulary and high-quality texts</p> <p>Development of periodic table – Active reading task</p>
<p><i>Can I Learning Questions</i></p> <p>Can I define an element, compound and mixture?</p> <p>Can I compare the properties of a metal and non-metal?</p> <p>Can I describe the trend in reactivity down group 1?</p> <p>Can I describe the trend in reactivity down group 7?</p>	<p><i>Literacy</i></p> <p>Tier 2 vocabulary Atom, Element, Compound, Mixture, Model, Periodic table</p> <p>Tier 3 vocabulary Metal, Non-metal, Noble gases, Trends, Reactivity</p> <p>Texts – Following a practical method – Group 7 displacement reactions</p>	<p><i>Misconceptions</i></p> <ul style="list-style-type: none"> • Group 1 metals are alkalis. When group 1 metals react with water they make an alkali. • Chlorine is a liquid at room temperature. • You can't get a mixture of compounds. Air is a good example of a mixture of elements and compounds.