

## Chemistry Matrix

<b>Level 1</b>	<p>AS90169 <b>1.1</b> Carry out a practical chemistry investigation with direction</p> <p>4 credits Internal</p>	<p>AS90170 <b>1.2</b> Process information to describe a use of chemistry knowledge with direction</p> <p>2 credits Internal</p>	<p>AS90171 <b>1.3</b> Describe chemical reactions</p> <p>4 credits External</p>	<p>AS90640 <b>1.4</b> Describe properties and reactions of metals, acids and bases</p> <p>4 credits External</p>	<p>AS90172 <b>1.5</b> Describe atomic structure and bonding</p> <p>3 credits External</p>	<p>AS90173 <b>1.6</b> Describe selected non-metals and their compounds</p> <p>4 credits External</p>	<p>AS90648 <b>1.7</b> Describe properties and reactions of carbon and its compounds</p> <p>3 credits External</p>
<b>Level 2</b>	<p>AS90305 <b>2.1</b> Carry out qualitative analysis</p> <p>3 credits Internal</p>	<p>AS90306 <b>2.2</b> Carry out an acid-base volumetric analysis</p> <p>3 credits Internal</p>	<p>AS90763 <b>2.3</b> Solve simple quantitative chemical problems</p> <p>2 credits Internal</p>	<p>AS90308 <b>2.4</b> Describe the nature of structure and bonding in different substances</p> <p>4 credits External</p>	<p>AS90309 <b>2.5</b> Describe the structural formulae and reactions of compounds containing selected organic functional groups</p> <p>4 credits External</p>	<p>AS90310 <b>2.6</b> Describe thermochemical and equilibrium principles</p> <p>5 credits External</p>	<p>AS90311 <b>2.7</b> Describe oxidation-reduction reactions</p> <p>3 credits External</p>
<b>Level 3</b>	<p>AS90694 <b>3.1</b> Carry out an extended practical investigation involving quantitative analysis</p> <p>4 credits Internal</p>	<p>AS90695 <b>3.2</b> Determine the concentration of an oxidant or reductant by titration</p> <p>2 credits Internal</p>	<p>AS90696 <b>3.3</b> Describe oxidation-reduction processes</p> <p>3 credits External</p>	<p>AS90698 <b>3.5</b> Describe aspects of organic chemistry</p> <p>5 credits External</p>	<p>AS90700 <b>3.7</b> Describe properties of aqueous systems</p> <p>5 credits External</p>	<p>AS90780 <b>3.4</b> Describe properties of particles and thermochemical principles</p> <p>5 credits External</p>	