

## Chemistry Matrix

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