

## A2 Chemistry Definitions

|                                 |                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Redox</b>                    | A reaction in which both oxidation and reduction take place                                                                                     |
| <b>Oxidation Number</b>         | A measure of the number of electrons that an atom uses to bond with atoms of another element                                                    |
| <b>Oxidising Agent</b>          | A substance which itself is reduced however it cause another species to be oxidised                                                             |
| <b>Reducing Agent</b>           | A substance which itself is oxidised however it causes another species to be reduced                                                            |
| <b>Rate of Reaction</b>         | The rate of the change in concentration of a reactant or product per unit time                                                                  |
| <b>Initial Rate of Reaction</b> | The concentration of a reactant or product when the time is equal to 0                                                                          |
| <b>Order</b>                    | The power to which the concentration of the reactant is raised in the rate equation                                                             |
| <b>Rate Constant</b>            | The constant that links the rate of reaction with the concentrations of the reactants raised to the powers of their orders in the rate equation |
| <b>Half-life</b>                | The time take for the concentration of a reactant to reduce by half                                                                             |
| <b>Rate-determining Step</b>    | The slowest set in a multi step reaction                                                                                                        |