



### Year 9 Assessment 1 – January 2025

45 minutes

| Science   | R | A | G |
|---|---|---|---|
| Safety: risks and hazards   |   |   |   |
| Laboratory apparatus: names and uses of equipment                     |   |   |   |
| Variables: identifying independent, dependent, and control variables. |   |   |   |
| Making measurement: being accurate and precise                        |   |   |   |
| Graphs: bar charts and line graphs                                    |   |   |   |
| Elements, Compounds, Mixtures   |   |   |   |
| Naming compounds from formulae  |   |   |   |
| Filtration, crystallisation, and distillation.                        |   |   |   |
| Structure of the atom – protons, neutrons and electrons               |   |   |   |
| Atoms and isotopes – comparing isotopes                               |   |   |   |
| Relative atomic mass calculations                                     |   |   |   |
| Electron structure of elements with atomic numbers 1-20               |   |   |   |

|   |  |  |  |
|---|--|--|--|
| Vectors and scalar quantities   |  |  |  |
| Gravity: calculating weight from a mass with $W=mg$   |  |  |  |
| Resultant forces  |  |  |  |
| Work done and energy transferred  |  |  |  |
| Forces & elasticity: including Hooke's law  |  |  |  |
| Development of the periodic table – the work of Dalton, Newlands, and Mendeleev               |  |  |  |
| Reactions and properties of elements in groups 1, 7, and 0.                                   |  |  |  |
| Trends in reactivity and physical properties (melting & boiling point) in groups 1, 7, and 0. |  |  |  |