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**Subject: Science**

**Year: KS3**

**Term: Autumn 1**

**Greenwood School Curriculum Summary**

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| **Topic** | **Lesson outline** | **Online link(s)**  | **Other Resources** |
| (Dalton) atomic model  | Describe early work on atomic models. | <https://continuityoak.org.uk/lessons> |  |
| Differences between atoms, elements and compounds  | Define atoms, elements and compounds as well as identify them from diagrams. Learn how to name compounds | <https://continuityoak.org.uk/lessons> |  |
| Chemical symbols | Practice sheets using a periodic table to identify elements and names | <https://continuityoak.org.uk/lessons> |  |
| Formulae for elements and compounds | Modelling elements, compounds and mixtures practical and worksheets. | <https://continuityoak.org.uk/lessons> |  |
| Identifying mixtures | Separation techniques for dirty sandy brine. Practical and worksheets. | <https://continuityoak.org.uk/lessons> |  |
| Development of the atomic model | Describe the work that led to an increased understanding of what atoms are made of and how this led to changes to the atomic model. | <https://continuityoak.org.uk/lessons> |  |
| Conservation of mass | The total mass of the reactants will be equal to the total mass of the products. | <https://continuityoak.org.uk/lessons> |  |
| Representing chemical reactions using formulae and using equations | Simple reactions and their word and chemical formula equations worksheets. | <https://continuityoak.org.uk/lessons> |  |
| Changes of state | State of elements at room temperature and state symbols. | <https://continuityoak.org.uk/lessons> |  |
| Periodic table development | Describe the main features of the modern periodic table, describe early versions of the periodic table, and then compare the modern periodic table with the early periodic tables. | <https://continuityoak.org.uk/lessons> |  |
| Relative atomic mass | Definition and worksheets on relative atomic mass | <https://continuityoak.org.uk/lessons> |  |
| Relative formula mass calculations | Definition and worksheets on relative formula mass calculations | <https://continuityoak.org.uk/lessons> |  |
| Elements Fact file | Complete a fact file for 2 elements (1 metal, 1 non-metal) | <https://continuityoak.org.uk/lessons> |  |
| Balancing simple chemical equations | How to balance simple and more complex equations. Molymod representation, Identifying non balanced equations. | <https://continuityoak.org.uk/lessons> |  |
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