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| **Year:** | **10** | | **Unit:** | **Chemistry** | |
| **Subject:** | **Science** | | **Assessment:** | **Investigation and Exams** | |
| **LG** | **LEARNING GOALS and SUCCESS CRITERIA** | | | | **Where is this in my notebook?** |
| **1**  1 Lesson | **SC1** | I can **classify** a chemical formula or drawing of a substance into one of more of the categories: atom, molecule, element, compound | | |  |
| **SC2** | I can **recall** definitions for: atom, nucleus, proton, neutron, electron | | |  |
| **SC3** | I can **draw** diagram showing correct subatomic particles for any element including electron structure using Bohr model | | |  |
| **LG1** | **I understand how atoms are structured and how all matter can be made of atoms** | | |  |
| **2**  2 Lessons | **SC4** | I can **identify** atoms belonging to the following groups of the Periodic Table – alkali metal, alkali Earth metal, halogen, and noble gas | | |  |
| **SC5** | I can **recognise** that elements in the same groups of the Periodic Table have similar properties | | |  |
| **SC6** | I can **explain** why elements in the same groups of the Periodic Table have similar properties | | |  |
| **SC7** | I can **explain** how the electronic structure of an atom determines its position in the periodic table and its properties | | |  |
| **LG2** | **I understand the reasons behind the positioning of elements in the Periodic Table** | | |  |
| **3**  6 Lessons | **SC8** | I can **define** – chemical formulae, reactant, product, chemical equation, law of conservation of mass | | |  |
| **SC9** | I can **predict** the products of different types of simple chemical reactions. | | |  |
| **SC10** | I can **draw** a word and symbol chemical equation to represent a balanced chemical reaction. | | |  |
| **LG3** | **I understand the differences in the types of chemical reactions and the products produced, and can describe them using balanced chemical equations** | | |  |
| **4**  1 Lesson | **SC11** | I can **define** reaction rate, catalyst, surface area, concentration. | | |  |
| **SC12** | I can **list** the four factors which can alter the rate of a chemical reaction | | |  |
| **SC13** | I can **explain** how each factor changes the rate of a chemical reaction | | |  |
| **LG4** | **I understand how changing the reaction conditions alter the rate of a chemical reaction** | | |  |
|  | SC14 | I can **use** the scientific method to design and safely perform experiments to investigate reaction rates | | |  |
| **5** | SC15 | I can **represent** data using correct genre (tables, graphs) | | |  |
| 7 Lessons | SC16 | I can **analyse** data and reach conclusions. | | |  |
|  | **LG5** | **I can use the scientific method to write a scientific report in the correct genre.** | | |  |