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| Year 7: Chemistry – Atomic structure | Elements and the periodic table | I can define atom, element, molecule and compound, giving examples when appropriate. |   |
| I can recall the number of elements in the periodic table. |   |
| I can locate metals and non-metals on the periodic table. |   |
| I can identify groups and periods of the periodic table. |   |
| What does the periodic table show | I can carry out some simple experiments to identify the properties of some elements. |   |
| I can describe how the properties of metals are different to the properties of non-metals. |   |
| History of the atom | I can recall that the model of the atom has changed over time. |   |
| I can describe the basic structure of the Dalton, plum pudding and planetary models of the atom. |   |
| I can state which sub-atomic particles were discovered first, second and last. |   |
| Structure of the atom | I can recall the sub-atomic particles found in the atom. |   |
| I can describe the location of the proton, neutron and electron within an atom. |   |
| I can state the mass and charge of sub-atomic particles. |   |
| I can use the periodic table to identify the number of sub-atomic particles found in the atoms of different elements. |   |
| Trends of the periodic table | I can describe the general trends of group 1 and group 7 elements. |   |
| I can write word equations to represent the reactions of group 1 and group 7 elements. |   |
| I can test a gas to see if it is hydrogen. |   |
| Electron configuration | I can state that the electrons of an element are arranged in energy levels or shells. |   |
| I can state how many electrons can fit into each energy level. |   |
| I can complete diagrams to show how the electrons are arranged in the energy levels of the first 20 elements. |   |
| I can link the number of electrons found in the outer shell of an atom with the group it is placed in. |  |

**7C2 – Atomic structure**