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| **Year 9**  **Chemistry**  **2021-2022** | In year 9 you will learn: How models of the atom and the periodic table developed and how arrangement of electrons results in chemical reactivity; How atoms can combine to form compounds, what happens as substances change state and how particle arrangement and bonding affects properties; Why some metals are more reactive than others and how this affects method of metal extraction, How acids and bases produce salts and why acids have different strengths. This builds upon KS3 topics exploring elements, mixtures and compounds, physical changes and chemical reactions. All further chemistry topics build upon these fundamental building blocks. |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Topic C1 – ATOMIC STRUCTURE AND PERIODIC TABLE** | | | | | | | |
| Weekly Homework Tasks | | | | Mid Topic Assessment |  | | |
| **Key Knowledge concept =** The outer electrons  **Attitudes and Skills TENSILE:**Numeracy, Enquiry  **Numeracy** = standard form | |  |  |  |  |  |  |

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| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|  |  | **Topic C2 - STRUCTURE,BONDING AND PROPERTIES OF MATTER** | | | | |  |
|  | End of C1 Topic Test | Weekly Homework Tasks | | | | | Mid Topic assessment |
|  |  | **Key Knowledge concept =** Orders of magnitude, Inter- and Intra-molecular bonding  **Attitudes and Skills TENSILE:**Numeracy, Literacy, solving problems  **Numeracy** = 2D and 3D shapes | | | |  |  |

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| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| **Topic C2 Continued….** | | | | | **Topic C4 – CHEMICAL CHANGES** | | National Science Week |
|  | | | | End of C2Topic Test | Weekly Homework tasks | |
|  |  |  |  |  | **Key Knowledge concept =** Electron transfer and Redox  **Attitudes and Skills TENSILE:** Numeracy, Enquiry, Independence  **Numeracy** = Order of magnitude calculations | |  |

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| 25 | 26 | 27 | 28 | | 29 | 30 | 31 | 32 |
| **C4 Continued….** | | | | | | | Revision for Mock Exams | Year 9 Mock Exams |
|  | Mid Topic Assessment |  | | | | End of C4 Topic test |
|  | Required Practical = Electrolysis | | | Required Practical=Making soluble salt | |  |  | |

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| 33 | 34 | 35 | 36 | 37 | 38 | 39 |  |
|  |  | Required Practical Consolidation | | **Consolidation** of Yr 9 Chemistry Content , Numeracy and Literacy skill Development | | |  |
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| Required Practical = Titration | |  |  |  |  |  |  |