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| **Year 10**  **Chemistry**  **2021\_2022** | In year 10 you will learn: How mass is conserved in chemical reactions and how we can calculate and measure amounts of substances and yields; About energy changes in reactions and how we represent and explain these; How we can calculate and measure rates of reactions, what factors affect the rate of a reaction and equilibrium; How the Earth’s atmosphere has changed over time, the effects and consequences of human activity on the atmosphere and how we can reduce our impact  For further detail please refer to the AQA Chemistry specification  <https://filestore.aqa.org.uk/resources/chemistry/specifications/AQA-8462-SP-2016.PDF> |

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| **Topic C3 Quantitative Chemistry** | | | | | | | |
| Weekly Homework Tasks | |  | **Mid Topic Assessment** |  |  |  |  |
| **Key Knowledge concept** = conservation of mass, percentage yield and amounts in Chemistry  **Attitude and Skills**  **TENSILE:** Numeracy  **Numeracy**= manipulating equations | | | |  |  |  |  |

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| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| C3 continued…. |  | **Topic C5 Energy Changes** | | | | | |
|  | **End of Topic C3 Test** | Weekly Homework Tasks | | **Mid Topic Assessment** |  |  | **End of Topic C5 Test** |
|  |  | **Key Knowledge concept** = Exothermic and Endothermic reactions  **Attitude and Skills TENSILE:** Numeracy, Enquiry  **Numeracy** = decimal form | | Required Practical = variables that affect temperature change | |  |  |

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| 17 | 18 | 19 | 20 | 21 | **22** | **23** | 24 |
| **Topic C6 Rates of Reaction and Equilibrium** | | | | | | | |
|  |  |  | **Mid Topic Assessment** |  |  |  | **End of Topic C6 Test** |
| **Key Knowledge concept** = limiting reactants and molar masses  **Attitude and Skills TENSILE:** Numeracy, Expression, Solving problems  **Numeracy** = Using tangents | | | Required Practical = Effect of concentration on rate of reaction | |  |  |  |

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| 25 | 26 | 27 | **28** | 29 | 30 | 31 | 32 |
| **Topic 9 Atmospehere** | | | | | | **C2 And C4 recap…….** | |
| Weekly Homework Tasks | |  | **Mid Topic Assessment** |  | **End of Topic C9 Test** | Continued from year 9 Covid 19 Lockdown time. Consolidation. | |
| **Key Knowledge Concept=** Using the Earth’s resources and sustainable development  **Attitude and Skills**  **TENSILE:** Numeracy, Enquiry, Literacy  **Numeracy**= translation from numerical to graphical form | | | Required Practical = Analysis and purification of water | |  | Numeracy and Literacy skill; practical skill Development | |

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| **33** | 34 | 35 | 36 | 37 | 38 | 39 |  |
| C2 and C4 consolidation | | **Revision for Mocks**  **Practice Past paper Questions** | | **Year 10 Mocks** | **Mock paper reflection and Review of Year 10 Topics.** | |  |
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