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| In Year 10 and 11 students will have 7 regular science lessons per week. Our curriculum is based on the AQA KS4 Combined Science: Trilogy Curriculum. In both years, we re-explore and develop a range of modules that students have been introduced to in year 7, 8 and 9, splitting these into the distinct disciplines of Biology, Chemistry and Physics. Students will be given the opportunity to explore their ideas and questions, follow the evidence from results and question everything. Some students may choose to focus solely on GCSE Biology later in the academic year.  For more detailed information, please click here: <https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464> | | | | | | | |
| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |  |
| Topic P3  3.1.1 Density of materials  3.1.2 Changes of state  3.2.1 Internal energy  3.2.2 Temperature changes in a system and specific heat capacity | Topic P3/4  3.2.3 Changes of heat and specific latent heat  3.3.1 Particle motion in gases  4.1.1 The structure of an atom  4.1.2 Mass number, atomic number and isotopes | Topic P4  4.1.3 The development of the model of the atom (common content with chemistry)  4.2.1 Radioactive decay and nuclear radiation  4.2.2 Nuclear equations  4.2.3 Half-lives and the random nature of radioactive decay  4.2.4 Radioactive contamination | Topic B3  3.1.1 Communicable (infectious) diseases  3.1.2 Viral diseases  3.1.3 Bacterial diseases  3.1.4 Fungal diseases  3.1.5 Protist diseases | Topic B3  3.1.6 Human defence systems  3.1.7 Vaccination  3.1.8 Antibiotics and painkillers  3.1.9 Discovery and development of drugs | Mock Exams  Topics included in the mocks will be:  **Biology 1, 2, 3, 7**  **Chemistry 1, 2, 4, 5**  **Physics 1, 2, 3, 4** | Topic C6  6.1.1 Calculating rates of reactions  6.1.2 Factors which affect the rates of chemical reactions  6.1.3 Collision theory and activation energy  6.1.4 Catalysts  6.2.1 Reversible reactions  6.2.2 Energy changes and reversible reactions  6.2.3 Equilibrium |  |
| End of topic tests based on past exam questions covering both Foundation Tiers and Higher Tiers. | | | | | | | |