## W.S ideas to be embedded:

1 Development of scientific thinking 2 Experimental skills and strategies 3 Analysis and evaluation 4 Scientific vocabulary, quantities, units, symbols and nomenclature HT1

## **Sandbach School Science Curriculum:**

## **Year 11 Science Curriculum Sequence**

HT2

P12 Wave properties.

Intent: To consolidate knowledge from Y10: Students will continue to visit these 10 key topics of forces, electromagnetism, energy, waves, matter, reactions ear... in whilst applying their understanding in a GCSE context. In addition students will further develop their knowledge of the scientific method within the context. required practical's.

Term 2

of AQA GCSE

Term 3

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Combined  B16-18 Ecology, B13 Reproduction  Triple (recap)  Eg Cells, Ecology, Decomposition, Food production, GM  Combined	Combined  B13 Reproduction, B14 Variation & evolution. Then preparation for paper 1 mock exam.  Triple (Recap)  Eg: Aseptic techniques, Cell cycle / mitosis, Enzymes, digestive system  Combined	Combined  B15 Genetics & evolution  Triple (Recap)  Eg Immunity, disease, nerves, eye, thermoregulation, glud diabetes, kidney, reproductive hormones, plant hormones, regenetic disorders, Darwin / Lamarck  Combined	to the control of the
C4 Chemical Calculations.  Triple  C4 Chemical Calculations	C6 Electrolysis then preparation for paper 1 mock exam.  Triple  C6 Electrolysis then preparation for paper 1 mock exam	Complete C6 electrolysis. Then preparation for l (revision of paper 2 topics)  Triple  Complete C6 electrolysis. Then preparation for l	Triple  Sincl revision then Sugar 2 v.1.45 minutes
Combined  P13 EM Waves  Triple  P7 Fission and fusion , P10 Surfaces and pressure, P14 Light  Why start here? These are the final units of the course. * More challent topics are delivered here, these have been left until 1/11 due to the high			Combined  Revision & GCSE Exams 2 x 1:15 mins  Triple  10 Final revision then Exam 2 x 1.45 minutes  Why move onto these units?  W/a No new content to be covered during term 3 of Y11.
spec links: 4.7.1 Adaptations, interdependence and competition, Organisation of an ecosystem, 4.7.3 Biodiversity and the effect of human interaction on ecosystems., 4.6.1 Reproduction  5.3.1 Chemical measurements, conservation of mass at the quantitative interpretation of chemical equations (foundation level only)  6.6.2 Electromagnetic waves, 6.6.2.1 Types of electromagnetic waves 4.4.4.1 Nuclear fusion, 4.4.4.2 Nuclear fission, 4.5.5. Pressure in fluids, 4.6.2.6 Visible light	the  5.4.3 Electrolysis  6.7 Magnetism and electromagnetism, 6.7.1 Permanent and induced magnetism, magnetic forces and fields  4.6.2.5 Lenses , 4.7.3 Induced potential, transformers and national grid, 4.8 Space Physics ,	Spec links: S	Revision will be based on ERA from previous years & analysis of weaker areas of mock exams.  Spec links:: N/a
Teaching these topics here supports: A level topics  These topics feed from: 7D Ecosystems Y10 Work on Ecology unit	Teaching these topics here supports: A level topics  These topics feed from: 7B Reproduction 8B plant reproduction C3 Structure & bonding. P12 Wave properties.	A level topics	Teaching these topics here supports:  These topics feed from: