

KS4 Curriculum Plan Science

Year 10		
Autumn Term	Topic Complete Biology Unit 1: Chapter 3 and 4 Biology Unit 2: Disease and Biogenetics: Chapters 5 - 9 Complete Chemistry Unit 1: Chapter 3 and 4 Complete Physics Unit 1: Energy and Energy Resources	Brief description Digestive system and circulatory system. Pathogens, Vaccines, Antibiotics, Drug development, Smoking, Alcohol. Photosynthesis, and Respiration Structure and bonding and chemical calculations. Types of energy, conservation of energy, efficiency and appliances. Energy transfers, Specific heat capacity, and energy resources
Spring Term	Topic Chemistry unit 2: Chemical Reactions and energy Changes Physics Unit 2: Particles at work Biology unit 3: chapters 10,11,12	Brief description Reactivity series, displacement, Salts, Neutralisation, electrolysis, Endo and Exothermic reactions. Electrical circuits, Power and P.d., Density, states of matter, and Radioactivity Homeostasis, the nervous system, hormones, and Kidneys.
Summer Term	Topic Biology Unit 4 Genetics and Reproduction Physics Unit 3: Forces in balance	Brief description DNA, the genome, Gene expression, inherited disorders, variation, evolution, genetic engineering, cloning, Darwin and extinction. Force, motion, momentum, and Pressure.

Year 11 This is the Legacy GCSE Science Additional from AQA. ISA controlled assessment will also be carried out for this final year through.

Autumn Term	Topic: B2 – Additional Biology P2 – Additional Physics	Brief description: The B2 unit covers a range of biology topics, including cells; plants; enzymes; homeostasis and inheritance. Once this unit has been completed the students will move onto the P2 unit.
Spring Term	Topic: P2 – Additional Physics C2 – Additional Chemistry	Brief description: The P2 unit covers a range of physics topics, including motion; energy; static electricity; mains electricity and nuclear physics. Once this unit has been completed the students will move onto C2, which is the final unit.
Summer Term	Topic: C2 – Additional Chemistry	Brief description: The C2 unit covers a range of chemistry topics, including atoms; bonding; mass; rates of reaction and different types of reactions. On completing this unit students will be engaged in revision activities to prepare for the GCSE examinations.