Science revision plan 2020

- You are currently studying the AQA Trilogy, Double award specification.
- You will sit 6 exams in total that will be averaged to give you an overall double grade. This grade can be the same grade twice (e.g. 5, 5) or a grade and one below or above (e.g. 5, 4 or 5, 6).
- You are entered for the same tier (higher or foundation) across all disciplines (Biology, Chemistry, Physics) you cannot mix and match
- You will need to take a black pen (plus spares), pencil, ruler, eraser, sharpener, and a scientific calculator to every exam

The list below gives you the information of when the exams are, and a detailed list of what will be on these papers can be found in your revision guide.

Paper 1

Biology: B1 Cell Biology, B2 Organisation of systems, B3 Infection and response, B4 Bioenergetics
Chemistry: C1 Atomic structure and the periodic table, C2 Bonding, structure, and properties, C3 Quantitative Chemistry, C4 Chemical changes, C5 Energy changes
Physics: P1 Energy, P2 Electricity, P3 Particle model of matter, P4 Atomic structure

Paper 2

Biology: B5 Homeostasis and response, B6 Genetic inheritance and variation, B7 Ecology
Chemistry: C6 Rates of reaction, C7 Organic Chemistry, C8 Chemical Analysis, C9 Chemistry of the atmosphere, C10 Using resources
Physics: P5 Forces, P6 Waves, P7 Magnetism and electromagnetism

Biology	Chemistry	Physics
Cell structure, function, transport (osmosis, diffusion, active transport) exchange surfaces and mitosis.	Atoms, elements, compounds, electronic structure, history of the atom and periodic table, metals and non-metals, Group 1,7 and 0 elements, mixtures and separation techniques	Energy stores and systems, kinetic and potential energy, specific heat capacity, conservation of energy, energy transfer, power, efficiency, renewable and non-renewable energy sources, Bio fuels, trends in energy resource use.
Enzymes and digestion, Lungs, Heart, non-communicable disease, cancer, plant structure and transpiration.	Ionic bonding, covalent bonding, polymers and giant covalent structures, allotropes, metallic bonding, states of matter.	Current and circuit symbols, resistance, circuit devices, series and parallel circuits, electricity in the home and appliances, power and the National Grid.
Communicable disease, pathogens, vaccination and developing drugs.	Relative formula mass, Moles (HT), conservation of mass, concentration of solutions.	Particle model and motion in gases, density of materials, internal energy and change in state, specific latent heat.
Photosynthesis, aerobic and anaerobic respiration, metabolism and exercise.	Acids and bases, reactivity series, extracting metals, reactions of metals and electrolysis.	Model of the atom, isotopes and nuclear radiation, nuclear equations, half-life, irradiation and contamination
Homeostasis, nervous system, fertility and menstrual cycle, controlling blood glucose.	Exo and endothermic reactions, measuring energy change, rates of reaction, calculating rates of reaction and reversible reactions.	Forces, weight, mass and gravity, force and work done, calculating forces, elasticity, springs, distance, displacement, speed and velocity, acceleration, D-T and V-T graphs, terminal velocity, Newton's Laws, Inertia, stopping, thinking and breaking distance.
DNA, inheritance, variation, genetic disorders, evolution and evidence, selective breeding, classification.	Hydrocarbons, crude oil, fractional distillation, cracking, purity and formulations, chromatography, tests for gases.	Transverse and longitudinal waves, wave experiments, refraction, electromagnetic waves, EM waves (& uses), Infrared radiation, dangers of EM waves.
Environment, field research techniques, recycling, cycles, biodiversity, human impact.	Evolution of the atmosphere, greenhouse gases, air pollution and carbon footprint, finite and renewable energy resources, recycling, water treatment and recycling.	Permanent and induced magnets, electromagnetism, motors and the motor effect (HT).