

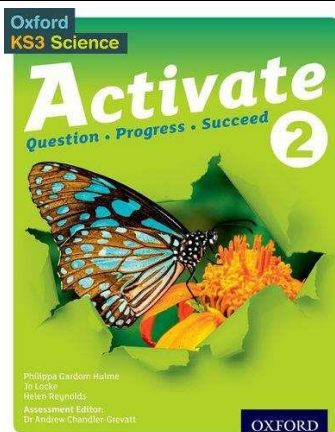


Blue Coat Church of England Academy

Year: 8

Subject: Science

Overview



Our Key Stage 3 (KS3) Science syllabus is designed to create engaging lessons which promotes understanding rather than repetition. In Year 7 and Year 8 the pupils will follow the Kerboodle: Activate scheme of work in Science, which includes online access and accurate assessments, with an aim to equip our students for success at GCSE.

Term 1.1

B2.1 Health and lifestyle: Digestive system, Nutrients, Food Tests, Bacteria and enzymes in digestion, Drugs and Alcohol.

C2.1 Periodic Table: Metals and non-metals, Groups and periods, The elements of Group 1, The elements of Group 7, and The elements of Group 0.

Term 1.2

P2.1 Electricity and magnetism: Charging up, Circuits and current, Potential difference, Series and parallel, Resistance, Magnets and magnetic fields, Electromagnets, and Using electromagnets.

B2.2 Ecosystem Processes: Photosynthesis, Leaves, Plant minerals, Chemosynthesis, Aerobic respiration, Anaerobic respiration, Food chains and webs, Disruption to food chains and webs, and Ecosystems.

Term 2.1

C2.2 Separation techniques: Mixtures, Solutions, Solubility, Filtration, Evaporation and distillation, and Chromatography.

P2.2 Energy: Food and fuels, Energy adds up, Energy temperature, Energy transfer: Particles, Energy transfer: Radiation, Energy resources, Energy and power, Work, energy, and machines.

Term 2.2

B2.3 Adaptation: Adaptation, Inheritance, Natural selection, and extinction.

C2.3 Materials: Metals with acids, Metals with oxygen, Metals with water, reactivity, Metal displacement, ceramics, polymers, and composites.

Term 3.1

P2.3 Motion: Speed, Motion graphs, pressure, and turning forces.

Term 3.2

C2.4 The Earth: The Earth and its atmosphere, Sedimentary rocks, Igneous and metamorphic rocks, The rock cycle, The carbon cycle, and Recycling.