

Combined Science Overview

Students will sit 6 exams in the 3 areas of science, each 1 hour 10 minutes long.

Paper 1: Biology 1

Content overview

Topic 1 – Key concepts in biology
Topic 2 – Cells and control
Topic 3 – Genetics
Topic 4 – Natural selection and genetic modification
Topic 5 – Health, disease and the development of medicine.

Paper 2: Biology 2

Content overview

Topic 1 – Key concepts in biology
Topic 6 – Plant structures and their functions
Topic 7 – Animal coordination, control and homeostasis
Topic 8 – Exchange and transport in animals
Topic 9 – Ecosystems and material cycles

Paper 3: Chemistry 1

Content overview

Topic 1 – Key concepts in chemistry
Topic 2 – States of matter and mixtures
Topic 3 – Chemical changes
Topic 4 – Extracting metals and equilibria

Paper 4: Chemistry 2

Content overview

Topic 1 – Key concepts in chemistry
Topic 6 – Groups in the periodic table
Topic 7 – Rates of reaction and energy changes
Topic 8 – Fuels and Earth science

Paper 5: Physics 1

Content overview

Topic 1 – Key concepts of physics
Topic 2 – Motion and forces
Topic 3 – Conservation of energy
Topic 4 – Waves
Topic 5 – Light and the electromagnetic spectrum
Topic 6 – Radioactivity

Paper 6: Physics 2

Content overview

Topic 1 – Key concepts of physics,
Topic 8 – Energy - Forces doing work,
Topic 9 – Forces and their effects,
Topic 10 – Electricity and circuits,
Topic 12 – Magnetism and the motor effect,
Topic 13 – Electromagnetic induction,
Topic 14 – Particle model, Topic 15 – Forces and matter