**Combined science GCSE 1-9**

Exam dates: Summer of Year 11

Each subject has two exams, 6 in total, in the summer examination period. Each exam lasts 70 mins

**Biology - paper 1 – 70 mins**

Key concepts in biology Cells and control

Genetics Natural selection and genetic modification

Health, disease and the development of medicines

**Biology - paper 2 – 70 mins**

Key concepts in biology Plant structures and their functions

Animal coordination, control and homeostasis Exchange and transport in animals

Ecosystems and material cycles

**Chemistry - paper 3 – 70 mins**

States of matter Methods of separating and purifying substances

Atomic structure The Periodic Table

Ionic bonding Covalent boding

Types of substance Acids and alkalis

Electrolytic processes Obtaining and using metals

Reversible reactions and equilibria

**Chemistry - paper 4 – 70 mins**

Atomic structure The Periodic Table

Ionic bonding Covalent boding

Types of substance Calculations involving masses

Groups in the Periodic Table Rates of reaction

Heat energy changes in chemical reactions Fuels

Earth and atmospheric science

**Physics - paper 5 – 70 mins**

Motion Forces and motion

Conservation of energy Waves

Light and the electromagnetic spectrum Radioactivity

**Physics - paper 6 – 70 mins**

Energy – forces doing work Forces and their effects

Electricity and circuits Magnetism and the motor effect

Electromagnetic induction Particle model

Forces and matter