Curriculum Overview – Science

Year 7	Year 8
A selection of Biology, Chemistry and Physics topics • Forces • Electromagnets • Energy • Waves • Matter • Reactions • Earth • Organisms • Ecosystem • Genes End of term, topic and year assessments	A selection of Biology¸ Chemistry and Physics topics • Photosynthesis • Relationships in an Ecosystem • Inheritance, Chromosomes, DNA and Genes • Microbes, Diseases and Health • Earth science • Explaining chemical changes • Making useful materials • Energy in matter • Electricity and Magnetism • Motion, Forces and Space End of term, topic and year assessments

Year 9	Year 10	Year 11
The GCSE Biology specification includes a range of topics, including a collection of Required Practical that students must familiarise with before sitting the exam This prepares students for the exams at the end of Year 10	The GCSE Biology specification includes a range of topics, including a collection of Required Practical that students must familiarise with before sitting the exam This year will emphasise more on exam preparation and thorough revision	The GCSE Physics and Chemistry specification includes a range of topics, including a collection of Required Practical that students must familiarise with before sitting the exam at the end of the year Paper 1 • Energy • Electricity

Paper 1 • Cell Biology • Photosynthesis • Moving and changing material • Health Matters Paper 2 • Coordination and Control • Genetics • Variation and Evolution • Ecology in Action	techniques to sit the end of year Biology Exam Paper 1 • Cell Biology • Photosynthesis • Moving and changing material • Health Matters • Paper 2 • Coordination and Control • Genetics • Variation and Evolution • Ecology in Action	• Particle Model of Matter • Atomic structure Paper 2 • Forces • Waves • Electromagnetism • Space • Chemistry: • Paper1 • Atomic structure and the periodic table • Structure, bonding and matter • Chemical quantities and calculations • Chemical changes • Energy changes Paper 2 • The rate and extent of chemical change • Hydrocarbons • Chemical analysis • The atmosphere • Sustainable development