

BTEC Level 3 Applied Science Curriculum

External Exam units
Internal Coursework units

Course Title	Year 1 Route (Year 12)	Year 2 Route (Year 13)
BTEC Level 3 Certificate	Pathway 1	n/a
BTEC Level 3 Extended Certificate	Pathway 1	Pathway 2
BTEC Level 3 Foundation Diploma	Pathway 1+2	Pathway 3 Spring 1 + Spring 2 + Summer 1 ONLY
BTEC Level 3 Diploma	Pathway 1+2	Pathway 3+4

	<i>Autumn 1</i>	<i>Autumn 2</i>	<i>Spring 1</i>	<i>Spring 2</i>	<i>Summer 1</i>	<i>Summer 2</i>
Pathway 1	Unit 1: Principals and applications of Science	Unit 1: Principals and applications of Science	Unit 2: Practical Scientific Procedures and techniques	Unit 2: Practical Scientific Procedures and techniques	Unit 2: Practical Scientific Procedures and techniques	
Pathway 2	Unit 3: Science Investigation skills	Unit 3: Science investigation skills	Unit 9: Human Regulation and Reproduction	Unit 9: Human Regulation and Reproduction	Unit 9: Human Regulation and Reproduction	
Pathway 3	Unit 5: Principals and Applications II	Unit 5: Principals and Applications II	Unit 4: Lab Techniques and their Application	Unit 4: Lab Techniques and their Application	Unit 4: Lab Techniques and their Application	COURSE COMPLETION
Pathway 4	Unit 6: Investigative Project	Unit 6: Investigative Project	Unit 11: Genetics and Genetic Engineering	Unit 11: Genetics and Genetic Engineering	Unit 11: Genetics and Genetic Engineering	

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 9	Unit 11
External Exam January <i>Biology</i> - Cells, Tissues, organ systems <i>Chemistry</i> – periodic table, physical properties of elements <i>Physics</i> - Waves	Practical Techniques and scientific reports: Titrations Chromatography Cooling Curves Personal reflection and skills	External Exam January Scientific investigations in: Enzymes Diffusion Circuits Sampling Fuels	Health and safety Making organic products Storing Scientific information	External Exam January <i>Biology</i> - cardio, ventilation, kidneys and transport <i>Chemistry</i> – Extraction and purification <i>Physics</i> -thermodynamics	Investigative project- Research Plan Implement Review	Regulation of cardiovascular and respiratory systems Homeostatic mechanisms Hormonal control of reproduction	Structure and function of Nucleic acids Cell division Human inheritance DNA Technologies