



BTEC Science

Subject Information Sheet

Course Title:	BTEC Applied Science
Subject:	Level 3 BTEC in Applied Science
Qualification:	Level 3 BTEC 1 A level equivalent = Extended Certificate 2 A level equivalent = Diploma 3 A level equivalent = Extended Diploma
Exam Board:	Edexcel
General Course Description	Students study all aspects of science from DNA in Biology to the physics used in medicine to dynamic equilibrium in chemistry. BTEC science will introduce you to high level scientific skills and concepts in Physics, Chemistry and Biology. You will learn and develop essential skills in Mathematics, literacy and organisation. You will demonstrate this knowledge and understanding of topics through coursework assignments. The focus throughout is keeping the science in the context of real life situations.
Course Content and Teaching Units	National Diploma in Applied Science: (Laboratory and Industrial). 1 = 1 st A Level Equivalent 2 = 2 nd A level Equivalent 3 = 3 rd A Level Equivalent This consists of 18 Units of General Science, Maths, Physics, Biology and Chemistry:- 1 Unit 1 Fundamentals of Science 1 Unit 2 Working in the Science Industry 2 Unit 3 Scientific Investigation 1 Unit 4 Scientific Practical Techniques 2 Unit 5 Perceptions of Science

	<p>2 Unit 6 Application of Numbers for Science Technicians (half unit)</p> <p>2 Unit 8 Using Statistics in Science</p> <p>3 Unit 10 Using Science in the Workplace</p> <p>2 Unit 11 Physiology of Human Body Systems</p> <p>1 Unit 12 Physiology of Human Regulation and Reproduction</p> <p>1 Unit 14 Energy Changes, Sources and Applications</p> <p>3 Unit 15 Microbial Techniques</p> <p>2 Unit 17 Electrical Circuits and their applications</p> <p>3 Unit 18 Genetics and genetic engineering</p> <p>3 Unit 20 Medical Physics Techniques</p> <p>3 Unit 21 Biomedical Science Techniques</p> <p>1 Unit 26 Industrial Applications of Chemical Reactions</p> <p>2 Unit 27 Chemical Periodicity and its Applications</p> <p>3 Unit 28 Organic Chemistry</p> <p>You will gain a broad understanding of Science and excellent practical skills. You will also develop your Key Skills of Number, Communication and Information Technology.</p>
Entry Requirements	<p>5 in all three Sciences.</p> <p>5 in Maths and English.</p> <p>5, 5 in combined Science</p>
Assessment	<p>Assignment units are set and marked by your teachers (with some work sent to the exam board to check grades are awarded accurately).</p>
Financial Information	<p>The school organises several trips out into Industry and Sheffield University. Some trips will be paid for by school funds but there may be some small costs for transport when required.</p>

Progression Opportunities	<p>This course lays the groundwork for further study in science based courses e.g. engineering, nursing, pharmacy, laboratory based courses etc, although many students have also gone onto study non science based qualifications such as law, teaching etc.</p> <p>The opportunity to gain a qualification equivalent to 1 A level in Y12 has been helpful for successful applications.</p>
Further Information about our courses including results	<p>This is a popular but challenging and rewarding course; the new BTEC structure and syllabus offers exciting opportunities to continue with our consistently achieved 100% pass rate in both Y12 and Y13.</p> <p>2017-2018 D*-D 75%</p> <p>We are proud to operate an open door policy where students can feel supported and encouraged at whatever level they are operating. It is our aim to work with you and the people that support you to help you achieve the very best that you can in BTEC Science.</p>
Trips, visits and extra-curricular	Trip to Gripple – see scientists working in the industry