


BTEC Applied Science Extended Certificate (Single)

Part A - Bridging Work Task

This is a fantastic opportunity to expand your understanding of Applied Science as you prepare for enrolment and start at Franklin in September.

Please complete the work and bring a copy to your enrolment, either printed or electronically.

The work will take around **2 hours**, so plan your time to best suit you.

How do I complete and submit my task?	<p>Complete the tasks on paper/handwritten or digitally and bring a copy either paper or electronically to your enrolment appointment, also take this to your first lesson in September.</p> <p>If you did not attend the Taster Day don't worry – this isn't essential for completing this work but, please ensure that you have completed this bridging work.</p>
Introduction to your Bridging Task	<p>This task relates to 'Chemical Quantities' which is part of both the examined unit - Unit 1: Principles and Applications of Science I coursework unit - Unit 2: Practical Scientific Procedures and Techniques</p>
Task details	<p>Complete the Rf calculations and questions in the work sheet below.</p> <p>Work sheet here</p> <p>Complete the calculations and questions on the following work sheet.</p> <p>Work sheet here</p> <p>Complete the quiz attached here</p> 

Resources to help you with the Bridging Task	<p>Link to the tasks</p> <p>Video links:</p> <p>You can also use any other research sources and materials you wish.</p>
Extension Tasks	
Extension Tasks to stretch and challenge you	<p>If you have completed the above to the best of your ability, feel free to try this extension task (<i>this is optional</i>):</p> <p>Research the different types of chromatography Gas and High-performance Liquid.</p> <p>Be sure to include a description of how the technique works and where it is used, images of the devices/ equipment needed.</p>
Massive Open Online Courses (MOOCs)	<p>You might enrol on these online courses and complete the following to push you a little further (this is optional):</p> <p>Biochemistry: Biomolecules, Methods, and Mechanisms My Mooc (my-mooc.com)</p> <p>Science & Cooking: From Haute Cuisine to Soft Matter Science (chemistry) My Mooc (my-mooc.com)</p>

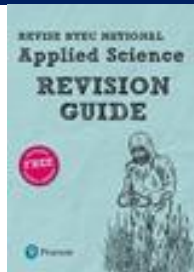
BTEC Applied Science Extended Certificate (Single)

Part B – Preparing for Studying at Franklin

A fantastic opportunity to widen your understanding of the course.

Examining Board and Specification	<p>This course follows the BTEC Level 3 National Diploma in Applied Science specification:</p> <p>Pearson BTEC Level 3 National Diploma in Applied Science Specification</p> <p>Exam Board: Pearson Edexcel</p> <p>Course Code: 601/7435/3</p> <p>We cover the following topics:</p> <ul style="list-style-type: none"> • Unit 1: Principles and Applications of Science I • Unit 2: Practical Scientific Procedures and Techniques • Unit 3: Science Investigation Skills • Unit 15: Electrical Circuits and their Application <p>You will complete a range of written reports, projects, practical assessments and presentations.</p> <p>Studying this course will give you a wide range of skills:</p> <p>By studying this course, you will have the opportunity to develop the following employability skills:</p> <ul style="list-style-type: none"> • cognitive and problem-solving skills: approaching non-routine problems applying expert and creative solutions, using systems and technology
--	--

	<ul style="list-style-type: none"> • interpersonal skills: communicating, working collaboratively, negotiating and influencing, self-presentation • intrapersonal skills: self-management, adaptability and resilience, self-monitoring and development. <p>This course provides transferable knowledge and skills that will prepare you for progression to university. These include:</p> <ul style="list-style-type: none"> • the ability to learn independently • the ability to research actively and methodically • the ability to give presentations and be active group members. <p>Progression after this course:</p> <p>This course will allow you to go on to study science-based courses such as Biomedical science, Forensics science, Environmental science.</p> <p>Applied Science is a key subject for lots of vocational careers such as Biomedical Scientist, Forensic Scientist, Laboratory Technician, Paramedic, and Sports Scientist.</p>
<p>Preparing for the course</p>	<p>Here are some helpful sources of information if you would like further information about the subject:</p> <p>Websites Pearson BTEC website for Applied Science</p> <p>Books There are two textbooks available</p> <div data-bbox="331 1120 523 1359" data-label="Image"> </div> <p>BTEC Level 3 Nationals Applied Science Student Book 1.</p> <p>ISBN: 9781292134093</p> <div data-bbox="331 1568 523 1807" data-label="Image"> </div> <p>BTEC Level 3 Nationals Applied Science Student Book 2.</p> <p>ISBN: 9781292134130</p> <p>There are two revision books available:</p>



Revise BTEC National Applied Science Revision Guide.

ISBN: 9781292150048



Revise BTEC National Applied Science Revision Workbook.

ISBN: 9781292150031

Digital Resources

https://qualifications.pearson.com/content/dam/pdf/BTEC-Nationals/Applied-Science/2016/teaching-and-learning/BTECNational_AppSci_Unit3.pdf