

Bridging Resources for Year 11 Applicants: Biomedical Science



St John Rigby College

Preparing for Transition from Key Stage 4 to Key Stage 5

Subject

Biomedical Science

Practicals

One of the best parts of studying science are the practicals. There are many practical's you can try out at home, search using the hashtag #ScienceFromHome

There are many virtual experiments, this one about purifying aspirin is one that we do complete as part of the course

<http://www.rsc.org/learn-chemistry/resources/screen-experiment/aspirin/experiment/1>

have a go!

Youth Stem Matters

Get involved in the Youth STEM matters 2030 project. Have a passion of a particular aspect of a sustainable planet, then not practice your writing skills and produce a scientific article about it, or video, be as creative as you can. There are 17 areas outlined on their website.

Under the "Get Involved" page there are opportunities to join their team or have your work published.
<https://www.youthstem2030.org/>

MaChemGuy

If chemistry is more your thing, then MaChemGuy has a video play list introducing you to some of the fundamental concepts we will be looking at whilst studying Chemistry at this level. The full playlist can be found by following the link below

<https://m.youtube.com/playlist?list=PLi6oabjl6coxUlfu8syK3K0iFXQljwDUM>

Qualification

BTEC National Diploma (3 A Level Equivalent)

Fake News

Unit 7 is all about Contemporary Issues in Science. There is a plethora of information about at the moment on COVID-19.

Spend time reading articles from different sources and reflect on their scientific reliability, influence, style of reporting manner. Try comparing a range of sources, e.g. tabloid news, broadsheet news, internet only, New Scientist magazine.

A&P

Anatomy and Physiology makes up quite a large portion of the assignment based units of our course. Download this free textbook and have a look at some areas of interest in more detail.

https://www.researchgate.net/profile/Nikola_Stevanovic5/publication/329174678_Anatomy_and_Physiology_-_Ross_and_Wilson/links/5bfa1b28a6fdcc538818cd18/Anatomy-and-Physiology-Ross-and-Wilson.pdf?origin=publication_detail

Free Science Lessons

You know you have missed him, blue screen guy. Well he has started making some videos for the start of A Level Biology and A Level Chemistry courses. Some of the content we will be studying is shown on these videos (we are just assessed differently). You may find it useful to start watching some of these to get a head start. Search FreeScienceLessons on you tube.

Don't forget

- There are many courses on the FutureLearn website you could have a go at across all areas of study (I have previously recommended some anatomy and physiology ones, but have a see what takes your interest. The CGP head start to A level Biology/Chemistry books are now free to download on Amazon Kindle.

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www.sjr.ac.uk



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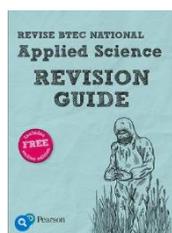
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<h3 data-bbox="156 495 802 566">Recommended reading materials</h3> <ul data-bbox="129 584 802 969" style="list-style-type: none"> ▪ The Immortal Life of Henrietta Lacks - by Rebecca Skool looks not only at Cancer Biology but also ethical issues around laboratory practice and its impact on the wider community. This book is food for the soul of any scientist, although I recommend skipping the middle chapter on some of the detailed legal ins and outs. ▪ https://www.theguardian.com/careers/healthcare-scientist-job-description this short article can give you an overview of healthcare science 	<h3 data-bbox="829 495 1433 566">Recommended websites</h3> <ul data-bbox="829 584 1444 898" style="list-style-type: none"> ▪ Crash course Biology/ Chemistry/ Anatomy and Physiology videos on YouTube are excellent – if a little quick so have the pause button at the ready. ▪ https://nationalcareersservice.direct.gov.uk/job-profiles/clinical-scientist Have a look on this website to see what specialisms you could go into.
<h3 data-bbox="129 999 794 1070">Preparation tasks</h3> <ul data-bbox="129 1088 802 1402" style="list-style-type: none"> ▪ CGP has two books, Head Start to A Level Biology and Head Start to A Level Chemistry (RRP £4.95 each), it could be useful to complete these to help you transition to the level of study required ▪ Have a look at the www.futurelearn.com website, there are a few courses under the health care and medicine section you might find useful, e.g. What's in the Body, by the University of Aberdeen. 	<h3 data-bbox="829 999 1433 1070">Recommended research</h3> <ul data-bbox="829 1088 1444 1469" style="list-style-type: none"> ▪ If you have a career path in mind do some research on what your next steps will be after college as some may involve a high level of work experience or other qualifications, you may need to gain in the upcoming months ▪ https://www.healthcareers.nhs.uk/Explore-roles/healthcare-science Have a look at this website for extra information about careers you may be interested in once you have completed your course.

Anything Else

- There will be opportunities to buy the official course text books and revision guides through us at the start of the year, if you want to get ahead though, here's the information:



Pearson BTEC National Applied Science. Student Book 1 - BTEC Nationals Applied Science 2016 ISBN: 9781292134093

BTEC National Applied Science Revision Guide: (with Free Online Edition) ISBN 1292150041

BTEC National Applied Science Revision Workbook: Second edition - REVISE BTEC Nationals in Applied Science (Paperback) ISBN: 9781292258171



- Ensure you arrive with pens, pencils, ruler, and calculator (you will be studying science at a high level so there will be some maths involved, hence the calculator requirement).

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