

BRIDGING WORK

BTEC Level 3 Diploma in Applied Science



[Pearson BTEC Level 3 National Diploma in Applied Science (720 GLH)]

TASK

Task 1 – Research and create revision flashcards for KS5 animal and plant cell organelles (use the link and the bottom of the page to aid you)

Task 2 – Research electronic configuration and the Aufbau principle, then write out in to format of a table, the electronic configuration of the 1st 30 elements.

Task 3 – Revise and summarise the different methods of elemental bonding: ionic bonding, metallic bonding and covalent bonds (include diagrams to inform your summaries)

Task 4 – Research how sound waves transfer in different musical instruments. You should research a string instrument and a woodwind instrument then compare the wave movement

All the above tasks are concept and topics you will cover for the unit 1 exam which is in January

In Double you will also be completing unit 6 and you will be required to design and carry out an experiment.

Task 5 – choose a scientific discipline and a topic within it. Then formulate a question within that topic you would like to answer your unit 6 project

During your applied science studies you will be sitting multiple exams over the 2 year course. To aid you in passing these exam it would be worth you buying the revision guide and matching question book which covers all the exams you will sit. Your best place to acquire these is amazon as you can get them cheaper than highstreets shops.

Below are the ISBN numbers for the revision guide and question book:

Revision guide: ISBN-13: 978-1292150048

Revision workbook: ISBN-13:978-1292258171

OVERVIEW

Two-year programme when studied alongside further Level 3 qualifications. Equivalent to two A-levels

8 units (over 2 years) - of which 6 are mandatory and 3 are external. Mandatory content (83%) External assessment (46%)

Year 1

Unit 1 – Principles and Applications of Science - **Exam**

Unit 2 – Practical Scientific Procedures and Techniques – **Coursework**

Unit 4 - Laboratory Techniques and their Applications – **Coursework**

Unit 6 – Investigative Project – **Coursework**

You will be given a text book during the duration of your Applied Science studies which you will have to return or replace (if lost or damaged) at the end of the course.

In addition you will need to bring to every lesson and folder with dividers and stationary for each topic.

On YouTube, Crash course is good source of summary material covering many topics. There are playlist for Physics, Biology and Chemistry.

Biology -

<https://www.youtube.com/playlist?list=PL3EED4C1D684D3ADF>

Chemistry -

<https://www.youtube.com/playlist?list=PL8dPuualjXtPHzZyUWy6fYEaX9mQQ8oGr>

Physics -

https://www.youtube.com/playlist?list=PL8dPuualjXtN0ge7yDk_UA0ldZJdhwkoV

DUE: First lesson in September