

Longdean School A-level Chemistry

Bridging Activities, 2018

Instructions

If you took the GCSE in Chemistry as a **SEPARATE subject** (i.e. as part of “triple” science alongside GCSEs in Biology & Physics), then **tasks A2, B & C are compulsory, whilst A1 is optional.**

If you took the **Combined Science Trilogy GCSEs**, then you need to complete **all tasks (A1, A2, B & C.)** *We may decide to give you one or more Separate Science: Chemistry paper(s) under test conditions in the first few days so that we can be jointly aware of any “gaps” that we need to address in the first term. (Your score on this is not linked to the offer of a place on the course – it is purely diagnostic.)*

All work (apart from Task B which we will check online) needs to be handed in during your first Chemistry lesson in year 12.

TASK A

Collect a “Head start to A-level Chemistry” book from Mr Oliver-Singleton (S4) before the end of term. This is a gift for you to keep, and you will hopefully find that it makes your transition from GCSE to A-level a little easier!

A1:

Read the notes and do something with the information. This could be highlighting words in it / making mind-maps / making flash cards / devising your own practice questions / etc.

A2:

Answer the questions, and then mark them in a different colour using the mark-scheme in the back.

TASK B

If you do not have an Educake log in, ask Mr Oliver-Singleton for one before the end of term.

Work through the Educake activities listed below:

www.educake.co.uk/1876576/online-test

www.educake.co.uk/1928518/online-test

www.educake.co.uk/1928540/online-test

Task C

The finished product for this task can be EITHER a single-sheet “handout” (two sides maximum) produced to a good standard (e.g. suitable for display) OR a PowerPoint (or similar) presentation with a maximum of 12 slides. You will need to be selective and pick the key points from these massive subject areas! Choose any ONE of the following topics:

- The story of human understanding of the structure of the atom. (*This option is also included in the Physics bridging task and you cannot choose it for both subjects.*)
- The chemistry of the earth’s ozone layer.
- Infra-Red Spectroscopy – principles, and application in forensic science.
- The chemistry of colour – how we can explain and control the colour of substances through our understanding of atoms and molecules.
- The chemistry of the car.
- The chemistry of drugs or medicines – choose example(s) that depend principally on chemical reactions to have an effect. You could decide to concentrate on their synthesis, purification or detection.