



CHEMISTRY: BRIDGING ACTIVITY

Development Tasks

These tasks are to be completed, so that you are ready for the challenge of A Level Chemistry. Some of these tasks will not be handed in, however at the start of the course they will be checked to see the work that you have completed. Therefore, you will need a folder/organiser for your work.

First: Complete the following.

1. Chemistry transition questions: please complete the questions, then mark **and correct** them using red pen. (Answers at the end)
http://fdslive.oup.com/www.oup.com/oxed/secondary/science/Science_A_Level_Transition_Pack_Chemistry.pdf

Then: Choose from the activities below.

2. Search on amazon.co.uk "New Head Start to A Level Chemistry" - this is a CGP book, which costs £4.95, and is a great way to practise key skills for chemistry.
3. Look at the free courses here and select **at least** one that interests you and complete. <https://www.open.edu/openlearn/free-courses/full-catalogue>

Research Task – Hand in at the start of the course.

Research the structure, properties and uses of Kevlar. Use this information to write an essay (of around 1000-1500 words) describing the bonding and structure of kevlar, detailing how these relate to its properties and how these, in turn, impact its uses. (NB If you are using American websites, please think about **spelling differences**).

Please see over the page for details of how you should structure your essay.

Structure of the task - please ensure your work has all the relevant sections (see details below):

- **Introduction** – Give a short introduction to the material and its uses.
- **Main section** – this will be several paragraphs including **diagrams/pictures** which:
 - Describe in DETAIL the bonding and structure of the material.
 - Describe the properties of the material and how each relates to its structure.
 - State the uses of the material AND relate them to its properties.
- **Conclusion** – a short paragraph summarising your findings: what are your overall conclusions about the material and its uses. (Give your own opinion here).
- **References/bibliography** – a list of the sources you used for your research (books or websites). You should have **at least 2 or 3 different** references.

You should be ready to present a summary of your findings to the class and hand in a copy of your research at the start of the course. We look forward to reading your essays!