Longdean School A Level Chemistry Bridging Activities; 2022

Congratulations on making such a good choice of A Level subject! The aims of the tasks below are to ensure that you are as well prepared as possible for the A Level course, to improve your confidence in your knowledge and ability, and to give us extra evidence (over and above your GCSE grades this summer!) of your strengths and areas for development.

Instructions

- **All** students need to complete tasks **A, B & C.**
- **Task A** needs to be "handed in" electronically by 18th September 2022
- **Task B** needs to be handed in during your first Chemistry lesson in the week commencing 12th September 2022.
- **Task C**: we will ask you what you have done for this during the week commencing 12th September 2022.

TASK A

1. Navigate to www.senecalearning.com
2. Log in. If you do not have an account – create a new one.
3. Join our A-Level Chemistry Class: class code: **dq7wohb4h1**
4. If the Seneca link does not work, try: https://app.senecalearning.com/dashboard/join-class/dq7wohb4h1
5. Complete the assignments set
6. Repeat any for which you do not feel happy with your score
7. My advice would be to spread them out over the summer holidays, perhaps aiming to complete them all over the first few weeks, and then repeat them and improve your scores over the last few weeks.

Task B

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 – its principles and its 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.

Task C

1. Download the specification and all helpful resources / information from our course website: https://www.ocr.org.uk/qualifications/as-and-a-level/chemistry-a-h032-h432-from-2015/
2. Check out some of the online resources below, to start planning which you will use to help you during the A Level course. (Not all OCR Specific)
    - https://www.youtube.com/user/MaChemGuy
    - http://www.knockhardy.org.uk/ppoints.htm
    - http://www.knockhardy.org.uk/sci.htm
    - http://www.chemguide.co.uk/
    - https://www.khanacademy.org/science/chemistry
    - https://www.creative-chemistry.org.uk/alevel
    - http://www.docbrown.info/index.htm (and other links on this page)
    - https://chemrevise.org/
    - http://www.a-levelchemistry.co.uk/
3. You may wish to read some of the books listed on the following site: https://chemrevise.org/2019/07/03/chemistry-summer-reading-updated/

Notes and Information

- If you struggle with any aspect of these tasks, and/or want to discuss whether you should pick A Level Chemistry, email me or Mr Munday on:
    - m.oliver-singleton@longdean.herts.sch.uk
    - n.munday@longdean.herts.sch.uk
- If you took the **Combined Science Trilogy GCSEs**, we may decide to give you one or more Separate Science: Chemistry paper(s) under test conditions in September, 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.)