Transition Subject Tasks

Subject: **Chemistry**

Course: A Level

Exam Board: AQA

Tasks below are to be completed before September 2020

1. **Fundamental Knowledge Tasks**

   A-level Chemistry relies on a very strong foundation of certain GCSE Topics. These are listed below. For each GCSE topic / unit below we would like you to have revised and completed the Physics and Maths tutor exam questions that are linked to it.
   To revise the topic you can use your GCSE revision guide and the short URLs provided.

   - Atomic Structure and Periodic Table - bit.ly/AtomicSx
   - Bonding and Properties - bit.ly/BondingPx
   - Moles and amount of substance - bit.ly/MolesAx

2. Now complete all question papers (end in QP) on this link and then mark these with the mark schemes provided - bit.ly/PhMaTu2

   Bring evidence of these into your first lesson of Chemistry.

3. **History of the Atom Assignment**

   We would like to see how you cope when asked to reference some research you have done. We are not expecting to see degree level reference lists and bibliographies, but we do want to see where you get your information from.

   Please write a 500 word essay outlining how the current model of the atom has come to be accepted by the scientific community. We suggest you start with the Ancient Greeks right through to the current model.

   <u>Referencing</u>
   In order to help with the question “how do I reference an essay” here is a link on how to give it a go. bit.ly/reftech

   Again, bring this in for your first lesson

4. Considering the risks - Risk Assessment

During A-level Chemistry we have 12 required practicals to look at. For the first practical you will be assessed on your ability to complete a risk assessment and an understanding of the hazards involved in the procedure.

We don't expect you to understand the concepts of the practical, but do consider the substances and the equipment that you are going to use, and write a risk assessment like the example below

Hazard	Likihood	Mitigation / reduction strategy
In here list all the Hazard associated with the practical -chemicals? -equipment? -glassware? -moving around the room	*Rate the likelihood risk occurring. 0-10 scale*	*How are you going to ensure this hazard is unlikely to occur.*

Please take a look at following video to see the method that you will be following in the practical, and use this to write the Risk Assessment.
bit.ly/ReqPra1

Your teacher will collect this in time for the first practical.

5. Transition Pack Document

By following this link **bit.ly/Chetrans20** you will be able to access a large online transition pack.

In here there are lots and lots of preparatory activities that you can do. We have slimmed this down to the more essential and helpful below, with page numbers.

- Do look at the **mini-research activities on page 5.**
- At the bottom of **page 9** there is some **balancing equations practice.** Complete this and **all activities on page 10**
- Start to read up on, and answer some questions on the **concept of orbitals in atoms on page 6**
- Optional: **On page 3**, there are some texts that are of interest. We particularly recommend Ben Goldare: Bad Science