

# A-Level Chemistry

## Summer 2020 Holiday Homework

### PART 1

You will need to prepare yourself for the start of A-Level Chemistry by going over some of the GCSE content. This is because the A-Level course builds on a lot of the content from GCSE and you need to understand it well before you build more on that topic. To prepare for this, you will need to refresh your memory about the following topics **towards the end of the summer holidays** (it's important to have a break, we recommend doing this in the last week of the holidays, you should aim to spend around 3 hours on this task):

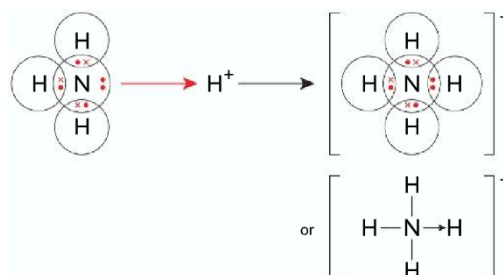
- Atomic structure
- Electron configuration
- Periodic table
- Rates of reaction
- Moles and Mr
- Answering describe and explain questions

You will have tests quite early on on some of the new A-Level content so by going over this before you come back, you give yourself the best chance of doing well with the new stuff. You want to be concentrating on new content in September and not worrying about remembering GCSE content.

### PART 2

There are 4 main types of bonding; covalent, ionic, dative covalent and metallic. Produce a factsheet about the types of bonding that includes the following information for each type:

- How the bonding is represented with examples
- Properties of each type with examples
- Comparisons with the other types



You will need to spend time researching bonding using A-Level textbooks and the Internet and provide a list of 3 or more references at the end of your factsheet. If you include diagrams, please refer to them in your text. You should aim to spend around 3 hours on this task.

**Factsheet due in:** First lesson back after the summer holidays.

### RECOMMENDATION

The 'Head Start to Biology' book (see picture) aims to bridge the gap between GCSE and A-Level. It is not compulsory, however you may like to purchase this (WHSmith/Amazon etc.) - the questions are useful to complete before starting the A-Level Biology course in September.

