Congratulations on being accepted on A-level Chemistry.

Please complete the following tasks and bring it to your first Chemistry lesson.

Task 1:

Please complete the table on the next page with the correct formula for the molecule or ions stated. We recommend you use the internet to research these or use a text book if you have access to one. Part of your induction will involve a test and this table will feature in that test.

The test will not be in the first lesson, it will be after the first couple of weeks.

Remember:

- Ions have charges (positive or negative).
- Molecules (including gases, acids etc) and metals are neutral (no charge).

Task 2:

Research the following parts of the AQA section of the specification and produce a resource (1 page maximum) to answer these questions. This could be a mind map, summary, revision poster, or Cornell notes for example:

1. Write a balanced equation for the reaction of barium with water.
2. Write a balanced equation for the reaction of magnesium with steam.
3. Write a balanced equations to show how CaO and $CaCO_3$ can be used to remove SO_2 from flue gases.
4. Research the use of magnesium hydroxide in medicine and calcium hydroxide in agriculture.
5. Write an ionic equation and describe any observations when acidified Barium chloride reacts with sulfate ions.
6. Research what Barium sulfate is used for in medicine.

A link to this part of the specification can be found here: Specification Link: Group 2

Sodium metal		Fluorine (molecule)	
Sodium ion		Fluoride ion	
Magnesium metal		Chlorine (molecule)	
Magnesium ion		Chloride ion	
Hydrogen ion		Hydroxide ion	
Hydride ion		Sulfate ion	
Aluminium metal		Carbonate ion	
Aluminium ion		Phosphate ion	
Iron (II) ion		Chlorate (I) ion	
Zinc (II) ion		Nitrate ion	
Silver ion		Hydrochloric acid	
Carbon solid		Sulfuric acid	
Helium gas		Phosphoric acid	
Hydrogen gas		Nitric acid	
Nitrogen gas		Sodium hydroxide	
Nitride ion		Potassium hydroxide	
Oxide ion		Barium hydroxide	
Sulfide ion		Calcium carbonate	