

Summer activities for Year 11 - CTEC Applied Science

The activities below are optional. If you are able to complete some or all of them, you will get an insight into the Applied Science Course and the content within the first unit. If you have any questions, please contact Nicky Miller - nmiller@s6c.mlp.college

Your course consists of five units: two are externally examined and three assessed internally by assignments. The first unit, Unit 1 Science Fundamentals, covers a range of science subjects. To help with your understanding of this unit you will need to have a good understanding of the topics below. Having a copy of the course textbook will help you a lot too. It can be previewed [here](#) and purchased as an electronic book [here](#) . This book will cover both year 12 and 13 units.

Topic Resources	
Atoms, elements and compounds	BBC Bitesize
Complete the review test for this section and check you are confident in this area.	Chemical symbols - Atoms, elements and compounds -
	AQA - GCSE Chemistry (Single Science) Revision - AQA
See this youtube clip on Atoms and periodic table	Atoms and the Periodic Table

The periodic table

Use the link to work through this subject area and answer the quiz.

[Mendeleev's periodic table](#)

[- The periodic table - AQA -](#)

[GCSE Chemistry \(Single Science\) Revision - AQA](#)

See this youtube clip of the periodic table

[A Tour of the Periodic Table](#)

Ionic bonding

Use the link to work through this subject area and answer the quiz.

[Forming ions - Ionic](#)

[compounds - AQA - GCSE](#)

[Chemistry \(Single Science\)](#)

[Revision - AQA](#)

See this clip on ionic bonding

[Ionic Bonding](#)

Covalent bonding

Use the link to work through this subject area and answer the quiz.

[Covalent bonds - Small](#)

[molecules - AQA - GCSE](#)

[Chemistry \(Single Science\) Revision - AQA](#)

See this youtube link on covalent bonding

[Covalent Bonding](#)

Compare and contrast ionic and covalent compounds. Check your findings with this youtube video

[Chemical Bonds: Covalent vs. Ionic](#)

Additional chemistry watching! [The modern alchemist](#)

[Chemical Curiosities: Surprising Science and Dramatic Demonstrations - with Chris Bishop](#)

The applied science course is not all chemistry! But that is where we will start so would be a great place for you to start your preparation.