

Getting Ready to Study Applied Science at College

The 'Getting Ready' list below gives you resources and activities you can use to get ready for when your course starts at Colchester Institute in September. We have picked mostly resources and activities you can access on-line and we have some suggestions too of other resources in the 'Going Further' section.

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The study of Applied Science is exactly as it suggests, the real application of all the main sciences Biology, Chemistry and Physics to our everyday lives!

In Biology, it is very important to know all about the workings of the Cell, and how we use for example microscopes to observe the different organelles contained in them each carrying out unique roles in order to bring about sustainable life. Have a go at these [cell exploration activities](#), all about animal and plant cells! Also, have a watch of this video, all about the [inner life of a cell](#).

Chemistry plays an important and central role to all of our lives and in so many ways. Chemistry underpins the other sciences as it concerns itself with atoms from which everything is composed, and the almost infinite and diverse number of reactions different elements and molecules can undergo. Try watching [The Magic of Chemistry Video](#) and visit this [interactive periodic table](#)! Also you can try this at home, [ice cream in a bag in five minutes](#) - an ideal activity when the weather is hot!

In Physics, it is important to know about the electromagnetic spectrum and waves so we can learn how to use them in say communication systems, and the probing and curing of certain disease states like cancer. Have a look at this [website](#) – there are links to lots of the topics that you will be studying in September, including videos. As revision, have a go at the questions on this [website](#) and then check your answers by 'reveal answer'.

Going further to study Applied Science at Colchester Institute

You could also try some quizzes in Biology, Chemistry and Physics at www.proprofs.com

To prepare for the academic requirements of the courses, review and read about academic referencing, as it is important to acknowledge the people that originally did the work! We use the [Harvard Referencing](#) style.

As you are all very aware we are currently experiencing a Global pandemic from the Covid-19 corona virus. Watch this video, which is one of many you could access, stating the importance Science plays in bringing this to an end [Covid-19](#). To solve this Global pandemic, we need to understand: the Biology of a virus and the host it infects; the Chemistry of the intermolecular reactions taking place when infection occurs; and the mechanical Physics of virus/host interactions. Studying Applied Science at CI can undoubtedly assist students on a pathway that could make a real difference to current and emerging Human health issues.

You can find information for new students at:

<https://www.colchester.ac.uk/further-education/applying-full-time-courses/>