



The John Roan School Sixth Form

The best in everyone™

Part of United Learning

Year 11 Bridging Work for Chemistry (A Level)



Complete

Practice your Standard Form

You used standard form in GCSE science— at A Level, we use it for all sorts of questions. It is important that you can handle the maths! Use the weblink to take you through materials for standard form. (Although the link says Physics, it is just as relevant for Chemistry as well.). You will need to register to Isaac Physics to complete the extra problems.

Link: [Standard Form Practice](#)

Time: *as long as you like*



Read

The Weirdness of Water

A better name for our planet would be Ocean rather than Earth, and yet despite its abundance across the planet water is a very strange molecule. It has a high melting point (yes, 0 °C is quite high), a high boiling point, and solid ice will float on liquid water. Read the link to find out more.

Link: [BBC – The Weirdness of Water](#)

Time: *20 minutes*



Listen

Science Weekly Podcast

Each week The Guardian publish podcasts on topical science issues. Here's three linked to Chemistry. Download them to your phone when you go to listen to on the go.

Links: [Periodic table podcast](#)
[Asbestos podcast](#)
[Plastics podcast](#)

Time: *30 minutes each.*



Watch

Atomic Structure Revision Videos

The starting point of chemistry is understanding the structure of the atom. Watch these videos from SnapRevise.

Link: [SnapRevise Atomic Structure](#)

Time: *Each of their videos is 10 – 15 minutes in length*



Read

Chemistry Dictionary

Chemistry contains lots of new terms and also terms you will have used at GCSE. Read through the chemistry dictionary and see which terms you already know, and look up some of the ones you are curious about.

Link: [Chemistry Dictionary](#)

Time: *20 minutes per sitting.*



Watch

Wonders of the Universe #2 Stardust

Prof Brian Cox discusses the link between the stars and the elements of which all living things, including humans, are made

Link: [Wonder of the Universe](#) (I couldn't find it without subtitles)

Time: *60 minutes*



Complete

Organic Chemistry Revision

Organic chemistry comes up in Year 12 and Year 13, both looking at fuels (petrol, diesel etc.) and also drug production (eg aspirin). It is a very important topic. It is essential you have a good grounding in organic chemistry. Work through the BBC bitesize topics on organic chemistry below.

Links: [Crude oil and hydrocarbons](#)
[Alkenes](#)
[Multiple Choice Questions](#)

Time: *Approx. 2 hours*