



The John Roan School
Sixth Form
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Part of Unibed Learning

Year 11 Bridging Work for A level Chemistry

Week 3 and 4

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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. (I realise it says physics, but we it is just as relevant for chemistry as well.). You will need to register to Isaac Physics to complete the extra problems.

Link:
<https://www.gcsephysicsonline.com/session-1>
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, solid ice will float on liquid water. Read the link to find out more.

Link: <http://tiny.cc/6yt0oz>
Time: as long as you like...



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 out and do some exercise.

Links:
Periodic table: <http://tiny.cc/mvq0oz>
Asbestos: <http://tiny.cc/lmq0oz>
Plastics: <http://tiny.cc/3tq0oz>

Time: 30 minutes each.



Watch video from Snap Revise on atomic structure

The starting point of chemistry is understanding the structure of the atom. Watch this video from SnapRevise.

Link –
<https://www.youtube.com/watch?v=HFKcmt7n0FU>
Time: 60 mins x3.



Read about some of the chemistry terms you'll come

across

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 – <https://chemdictionary.org/>
Time: 40 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 -
<https://vimeo.com/200519769>
(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), so 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

Links:
<https://bbc.in/35VQcyv>
<https://bbc.in/3bse3Hw>
<https://bbc.in/2LvBM3r>

Time: Approx. 2 hours