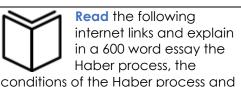
Y11 Home Study

GCSE to A-Level Chemistry: **Bridging Work**



Contact: Mr Blair a.blair@ralphallenschool.com



why the specific conditions are so important.

https://www.thechemicalenaineer.c om/features/cewctw-fritz-haberand-carl-bosch-feed-the-world/

https://www.chemauide.co.uk/physi cal/equilibria/haber.html

Time: 1 hour

Complete the task to create timeline showing the different scientists involved in the model of the atom changing over time. You could use your GCSE revisions guides to help you with this. There is an example on the link below.

https://www.compoundchem.com/ 2016/10/13/atomicmodels/

Time: 1 hour



Complete research on the chemistry behind fireworks. Write an information card to explain what you have

learnt.

Use this website below to help.

www.compoundchem.com/2013 /12/30/the-chemistry-of-fireworks/

put your balancing symbol

difficult balancing equations

equation skills into practise Try the

https://education.ilab.ora/eleme

https://www.northalleahenv.ora/c

main/1083/balancinapractice.pdf

ms/lib/PA01001119/Centricity/Do

Play the

balancina

symbol equation

game where you

Time: 1 hour

sheet as well.

ntbalancing/



Listen to the Chemistry for your life podcast explaining how the element helium

changes your voice. Write a paragraph to explain the science behind the high saueaky voice we hear when we breathe it in.

https://www.stitcher.com/pod cast/podcast-for-yourlife/chemistry-for-your-life



Complete the auestions on knowledge from GCSE Chemistry

that you need to know to move on to A-Level. Answer 60 marks worth of questions from the link.

https://www.physicsandmathst utor.com/chemistryrevision/gcse-aga/atomicstructure-and-periodic-table

Time: 1 hour



Play the balancing symbol equation simulation to help you visualise how many atoms are needed to balance an equation.

https://phet.colorado.edu/en/simulation/bal ancing-chemical-equations

Time: 15 min



Watch the video where Professor Jim Al-Khalili tells the story of the greatest scientific discovery ever that everything is made of atoms.

Write 10 interesting facts you learnt while watchina.

https://www.youtube.com/watch?v=GOJFzn zSZhM

Time: 1 hour



Time: 1 hour

Watch the metals documentary and write down as many uses of different metals

as you can. Once you have done this, research using the internet for a good chemical explanation as to why they are good for those

https://www.voutube.com/watch ?v=7pzl14KaBna

Time: 2 hours



Watch the balancing symbol equation video and make sure you

remember how to balance eauations.

https://www.youtube.com/wat ch?v=RnGu3xO2h74

Time: 15 mins



Submitted Task

Answer the following 6 mark questions using your GCSE knowledge and some Alevel knowledge you may have picked up. 1) Explain the structure and some uses of

metals and their reactions with acid. (Add balanced eauations.) (6)

- 2) Explain how ideas about the atom have changed over time. (6)
- 3) How are polymers formed? Discuss the advantages and disadvantages. (6)

Submit answers to Mr Blair:

a.blair@ralphallenschool.com

Time: 1 hour