

# chemistry

A Level Preparation Pack



## What is Chemistry?



<https://www.youtube.com/watch?v=j7d6RETP6PQ>

## Online Courses



A free online course from the **Open University** which will allow you to discover what chemistry is all about - <https://www.open.edu/openlearn/science-maths-technology/chemistry/discovering-chemistry/content-section-overview?active-tab=description-tab>

An interactive online course introducing atoms and subatomic particles - <https://app.senecalearning.com/classroom/course/d40348f4-579a-4f76-b2a8-12c562e9b836/section/b7c08d8e-7d74-4d9d-8949-95a5cbde6819/session>

Get a head start on the content you will study - <https://chemrevise.org/ocr-revision-guides/>

## Activities



Have a go at some of these fun chemistry crossword puzzles, especially the fossil fuels crossword. See what you can remember from GCSE! - <https://www.creative-chemistry.org.uk/funstuff/xword>

A useful interactive periodic table: <https://www.rsc.org/periodic-table>

STEM.org.uk provide a range of Chemistry activities you can try. For example Life in the Freezer is a practical activity you can do at home - <https://www.stem.org.uk/resources/elibrary/resource/33207/life-freezer-suitable-home-teaching>

More activities can be found here: <https://www.stem.org.uk/resources/collection/3999/chemistry-activities>

## Videos



**Hank Green** on Crash Course has some great videos that will give you a fun introduction to A-level Chemistry

- [Watch on YouTube](#)

Videos on the Periodic Table from The **University of Nottingham**

- <http://www.periodicvideos.com/>

A talk on **Organic chemistry** and why it's a great subject to study

- <https://www.youtube.com/watch?v=I9rIdmHH2M0>

Who doesn't like some flashes and bangs?!

- [https://www.youtube.com/watch?v=bOuEJf8Dr\\_4](https://www.youtube.com/watch?v=bOuEJf8Dr_4)

## Suggested Reading & Podcasts



### Radio

An interesting history of the Periodic Table is available on BBC sounds:

- <https://www.bbc.co.uk/sounds/play/w3csvsfm>

### Podcasts

A complete set of podcasts exploring all the elements in turn.

- <https://www.chemistryworld.com/1925.more?navcode=268>

A free series of podcasts based on the periodic table produced by the BBC:

- <https://www.bbc.co.uk/programmes/p01rcrn6>

The Infinite Monkey Cage featuring Brian Cox on BBC Radio 4 has lots of interesting Science episodes. Look out for the Anniversary of the

Periodic Table and Oxygen: A Matter of Life and Death.

- <https://www.bbc.co.uk/programmes/b00snr0w/episodes/player?page=2>

### Suggested reading

An excellent free on-line textbook can be found at:

- <https://www.chemguide.co.uk/>

The Royal Society of Chemistry is the go-to organisation for all things Chemistry related. You only need a free registration to access several articles & podcasts a month. To have complete access to the site there is a subscription of £36 a year which is well worth it if you are serious about your chemistry.

- <https://www.chemistryworld.com>

## TV & Film



### Ted Talks

- How small is an atom? [https://www.ted.com/talks/jon\\_bergmann\\_just\\_how\\_small\\_is\\_an\\_atom](https://www.ted.com/talks/jon_bergmann_just_how_small_is_an_atom)
- How big is a mole? [https://www.ted.com/talks/daniel\\_dulek\\_how\\_big\\_is\\_a\\_mole\\_not\\_the\\_animal\\_the\\_other\\_one](https://www.ted.com/talks/daniel_dulek_how_big_is_a_mole_not_the_animal_the_other_one)

## Course Specifications



**A Level - [Download OCR Chemistry Specification](#)**