

Curriculum Subject: Chemistry

Year 10

Exam Board: Edexcel

What are we learning this term? We will be looking at patterns that exist in the period table so that we can use it effectively. We will also be looking at the difference between ionic and covalent bonding.

Autumn Term:

1. States of Matter
2. Methods of Separating and Purifying Substances
3. Atomic Structure
4. The periodic table
5. Ionic Bonding
6. Covalent Bonding

Useful Websites:

<http://www.bbc.co.uk/education/guides/z2wmxnb/revision>

[http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/atomic structure/periodictablerev1.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/atomic_structure/periodictablerev1.shtml) (all 6 pages)

[http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/atomic structure/electronsrev1.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/atomic_structure/electronsrev1.shtml) (all 3 pages)

[http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/ionic compounds/ionicrev1.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/ionic_compounds/ionicrev1.shtml) (all 5 pages)

[http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/ionic compounds/ionicanalysisrev1.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/ionic_compounds/ionicanalysisrev1.shtml) (pg 1)

[http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/covalent compounds/compoundsrev1.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/covalent_compounds/compoundsrev1.shtml) (pg 1-5)

[http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/covalent compounds/seperationrev1.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/covalent_compounds/seperationrev1.shtml)

How will we be assessed?

2 End of topics tests and a January Mock Exam

What are we learning this term? We will be looking at acids and alkalis and doing practical involving universal indicator. We will also be looking at the electrolysis of certain compounds and the collection and testing of different gases. Metals are extracted from rocks dug up from the earth and we will be looking at the different methods of extracting them from the rocks they are found in.

Spring Term:

1. Calculations involving masses
2. Acids
3. Electrolysis
4. Extracting Metals

Useful Websites:

http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/quantitative/calculationsrev1.shtml (pg 1-3)

http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/gases_equilibria_ammونيا/gases/revision/1/ (pg 1 &2)

http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel/acids/acids_neutralisation_salt_srev1.shtml

<http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel/acids/electrolysisrev1.shtml>

http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel/metals/obtaining_using_metal_srev1.shtml

How will we be assessed?

Topic Test

What are we learning this term? We will look at transition metal and investigate their properties to understand more about them. We will also learn why alloying metals is extremely useful to us. We will also look at chemical reactions that can go both forwards and backwards and how we can adapt the conditions to try and persuade it to go in the direction that we want.

Summer Term:

1. Reversible reactions
2. Transition Metals
3. Alloys
4. Quantitative analysis
5. Calculations involving gases

Useful Websites:

[http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/gases equilibria ammonia/equilibria/revision/1/](http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/gases_equilibria_ammonia/equilibria/revision/1/)

[http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/gases equilibria ammonia/ammonia/revision/1/](http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/gases_equilibria_ammonia/ammonia/revision/1/)

[http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/periodic table/metalsrev3.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/periodic_table/metalsrev3.shtml)

[http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel/metals/obtaining using metalsrev5.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel/metals/obtaining_using_metalsrev5.shtml)

[http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/quantative analysis/quantative analysis/revision/1/](http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/quantative_analysis/quantative_analysis/revision/1/)

[http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/gases equilibria ammonia/gases/revision/1/](http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/gases_equilibria_ammonia/gases/revision/1/)

OneNote:

How will we be assessed?

End of year exam.