

## TASK

Use your online searching abilities to see if you can find out as much about the topic as you can.

**You should make a 1-page summary for each one you research using Cornell notes:**

<http://coe.jmu.edu/learningtoolbox/cornellnotes.html>

### Task 1: The chemistry of fireworks

What are the component parts of fireworks? What chemical compounds cause fireworks to explode? What chemical compounds are responsible for the colour of fireworks?

### Task 2: Why is copper sulphate blue?

Copper compounds like many of the transition metal compounds have got vivid and distinctive colours – but why?

### Task 3: Aspirin

What was the history of the discovery of aspirin, how do we manufacture aspirin in a modern chemical process?

### Task 4: The hole in the ozone layer

Why did we get a hole in the ozone layer? What chemicals were responsible for it? Why were we producing so many of these chemicals? What is the chemistry behind the ozone destruction?

### Task 5: ITO and the future of touch screen devices

ITO – indium tin oxide is the main component of touch screen in phones and tablets. The element indium is a rare element and we are rapidly running out of it. Chemists are desperately trying to find a more readily available replacement for it. What advances have chemists made in finding a replacement for it?

**There is a transition booklet that you will complete on the first lesson in September.**

## OVERVIEW

A-Level Chemistry is divided into three areas Physical, Organic and Inorganic Chemistry.

20% of the overall assessment of A-level Chemistry will contain mathematical skills equivalent to Level 2 or above.

At least 15% of the overall assessment of A-level Chemistry will assess knowledge, skills and understanding in relation to practical work.

There is a practical endorsement that is obtained on the successful mastery of key practical skills across in a minimum of 12 practical activities.

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At the start of the year you will be provided with hardcopy textbooks and an electronic copy on Kerboodle. These are a requirement for every lesson.

You will also need a ring binder, a positive attitude and resilience.

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### Useful Websites and Further Reading:

All you need to know about the Periodic table  
<http://www.rsc.org/periodic-table>

Useful notes, and videos exam questions and mark schemes

<http://www.rsc.org/learn-chemistry>

<http://a-levelchemistry.co.uk/>

<http://bit.ly/pixlchem3>

<http://www.kore.co.uk/tutorial.htm>

<http://bit.ly/pixlchem4>

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**DUE: First lesson in September**