Revision Pack for: AS Chemistry

Exam Board: OCR A


Past Papers and mark schemes: Through OCR website here (old specification – still relevant content)

Examination Format (NEW):

<table>
<thead>
<tr>
<th>Paper 1</th>
<th>Paper 2</th>
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<tbody>
<tr>
<td>‘Breadth’</td>
<td>‘Depth’</td>
</tr>
<tr>
<td>1 h 30</td>
<td>1 h 30</td>
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<tr>
<td>70 marks</td>
<td>70 marks</td>
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- **Section A (20 marks)**
  - Multiple choice questions

- **Section B (50 marks)**
  - Structured questions covering theory and practical skills

**Assessment Objectives:**

- Extract and manipulate data.
- Interpret and use information.
- Show comprehension by written communication with regard to logical presentation and the correct use of appropriate technical terms.

- Practical Skills (15%)
- Mathematical Skills (20%)
- Multiple choice
- Extended response
What to Revise

Use the checklists on Ker boodle and My PLC to check what you have revised and what you need to revise more.

How to Revise

- Flash cards are a useful way to revise.
- Mind map all the functional groups and reactions, how can one substance change.
- Choose a topic, revise and teach someone else.
- Plan a series of possible exam questions.
- Use practise questions and then GREEN PEN the answers.

- **Lots of past papers**
  - Download all of the past papers from the OCR website for the current specification (F321 and 322) as far back as 2009, including markschemes and examiner’s reports.
  - Complete the paper as far as possible without help from the textbook/notes.
  - For any parts you struggled with, change pen colour and complete the rest with help from the textbook/notes/other students.
  - Then study the markscheme (really get to know how marks are allocated for each question type) and mark your work.
    - Base grading on 80% A, 70% B, 60% C and so on.
  - Then study the examiner’s report to see what the common mistakes were.
  - Repeat this whole process for each of the papers.
  - Download the Legacy papers from 2007 – 2010 and repeat the process.
  - Use past papers from AQA and Edexcel exam boards as well.

- **Complete all activities in the textbook**
  - Each double page in the textbook contains a number of exercises which cover each aspect of the course.
  - These should all be completed and checked using the answers at the back of the book.
  - Complete the practice exam questions at the end of each topic, and check them using the answer sheets on kerboodle.

- **Form a revision group with other like-minded students**
  - Research shows that if you can teach a subject then you are much more likely to understand it and remember it yourself.
  - Make sure you set yourselves achievement targets, though, as group work can very quickly turn into an unproductive gossip session - after which you’ll assume you have just done several hours of work when all you’ve actually done is discussed last weekend’s antics at that party you all went to.
Examination Strategies:

**Circle** the command terms (State, explain, describe etc…)

**Underline** the key words

**Scribble** down any extra words that might be helpful

**Think** it through and make sentences using the key words.

**Account** for every part of the question

**Read** every word once you have finished.

**Do** not rush

Key words with definitions:

Command words with definitions:

**State** – short answer. Don’t waste time describing or explaining!

**Describe** – recall facts e.g. what does it look like? what happens? Step-by-step

**Explain** – give a clear scientific reason – link it to the question

**Evaluate** – use your knowledge and any information given to give pros and cons, and make a conclusion (scientific justification)

**Suggest** – apply your knowledge to a new situation. Give a scientific reason

**Calculate** – Use the numbers given to work out the answer. Show your working, you might get marks for it! Always use the correct units.

**Compare** – similarities and differences (more, less, increase, decrease, whereas, however)

**Complete** – write your answer in the space given

**Use the information** – you won’t get any marks if you don’t use the information given! Use numbers from a table or graph then explain them scientifically
MOST COMMON MISTAKES:

• Not reading the question properly
• Not finishing the paper – timing!
• Ignoring the marking scheme – allocate marks!
• Repetition – making the point more than once won’t get you any extra marks
• Missing part of a question –
  e.g. “describe and explain”, don’t forget to explain!
  o Calculate the moles (to 3sf) of Calcium in 10g of Calcium carbonate.
  o Write the symbol equation, using state symbols, for the combustion of ethane.
  o Calculate the relative atomic mass of Iron using data in the table and give the units.

Quick tips:

• Write information you need to put in your answer underneath the answer line.
• Stuck – re-read Q, or read on – sometimes information links back to the question or jogs your memory.
• Exam papers are scanned, do not write in the borders.
• Look at data sheet.
• Explain calculations – examiners will not try and work it out!!
Helpful websites.

https://www.youtube.com/channel/UCPtWS4fCi25YHw5SPGdPz0g
  - A Chemistry specific revision channel!

http://chemrevise.org/ocr-revision-guides/
  - Fantastic revision guide resources, if you want pre-written revision notes, it's all here!

http://www.physicsandmathstutor.com/chemistry-revision/a-level-ocr-a/
  - Physics and maths you say…some fantastic exam questions by topic for the NEW SPEC!!

http://www.knockhardy.org.uk/sci.htm
  - Notes for all topics, depends on the layout you prefer.

www.s-cool.co.uk
  - This is a great place to come for a comprehensive review of all the main areas covered by chemistry AS and A2 Level. There are detailed notes on all areas and revision summaries that you can print out and carry round with you. Once you feel like you’ve absorbed enough information, have a go practising the sample questions.

www.chemguide.co.uk
  - An easy to use website, which leads you to clear and detailed explanations of the topics you need to know for A level chemistry. The notes come with diagrams and an option to test what you’ve learnt.

www.docbrown.info
  - A big friendly site that will help you get to grips with AS and A2 chemistry. Try taking the multiple choice quizzes after you’ve revised a subject to help you judge how much you’ve taken in.

www.revision-notes.co.uk
  - Come here for revision notes on atoms, energetics, periodicity, transition metals and organic chemistry. The information is presented in quite a dry style, so if you find your enthusiasm flagging, maybe move over to a livelier site.

http://www.contentextra.com/bacconline/OnlineResources/ChemistryPages/HLQuizzes.aspx
  - Some online quizzes, not OCR specific, but the content should be roughly the same.