

## Guidance on the use of past paper questions for Advanced Higher Chemistry

The Curriculum for Excellence Advanced Higher Courses draw on the strengths of popular areas of study from existing Advanced Higher with the introduction of some new content. The purpose of this support document is to help centres and departments to identify suitable past paper questions/items that could be used, or possibly amended, to support learners in their preparation for sitting question papers (exams) as part of the Advanced Higher Course assessment. The advice in this document reflects questions selected from **2011 to 2014** [past papers](#).

When utilising any past paper questions, you need to take into account the following:

- ◆ You must select questions that provide the learners with the same level of challenge as those in the Advanced Higher Specimen Question Paper.
- ◆ You may be able to use questions as published or with amendments as suggested in the columns below.
- ◆ You must use questions that adhere to the Advanced Higher General Marking Principles and reflect the form of Detailed Marking Instructions as published in the Advanced Higher Specimen Question Paper.

If any change to a question/items is necessary, you must ensure that:

- ◆ The style and structure matches the Specimen Question Paper for Advanced Higher.
- ◆ Marking of the learner's response to the question adheres to the General Marking Principles in the Advanced Higher Specimen Question Paper.
- ◆ Marking Instructions are amended to reflect the style of the Advanced Higher Detailed Marking Instructions.

The details below should be read in conjunction with the relevant:

Mandatory documentation:

- ◆ Course Specification
- ◆ Unit Specifications
- ◆ Course Assessment Specification

Advice and guidance:

- ◆ Course and Unit Support Notes

Assessment:

- ◆ Question Paper Component:
  - general assessment information
  - general marking principles and detailed marking instructions

Related Information as provided in the relevant N5-Advanced Higher Course Comparison Document.

**Key for the section below:**

- C — amend context as required
- S — amend source as required
- St — amend question style
- Str — amend structure of the question

Not all topic/areas of study will appear every year due to the sampling techniques used in producing question papers.

Information from the Course Assessment Specification	The columns below identify additional support questions from Advanced Higher Past Papers 2011 to 2014		
	Where the same questions appeared in both the revised and the traditional papers, we have referenced the revised Advanced Higher paper.		
	Advanced Higher		
	Use question as published	Amend question context/source	Amend question style/structure
<b>Inorganic and Physical Chemistry</b>			
Electromagnetic radiation and atomic spectra	<a href="#">2014Rsec A</a> Q4, Q6, Q7 <a href="#">2014sec A</a> Q2 <a href="#">2014Rsec B</a> Q1a, <a href="#">2013Rsec A</a> Q2, Q3, Q4,Q7 <a href="#">2013Rsec B</a> Q4d	<a href="#">2013Rsec A</a> Q7 (mixed key area)	<a href="#">2014Rsec B</a> Q1d(command word)
Atomic orbitals, electronic configurations and the Periodic Table	<a href="#">2014Rsec A</a> Q1, Q2, Q3, Q5, Q8, Q9, Q10 <a href="#">2014Rsec B</a> Q1 c(i)(ii), <a href="#">2013Rsec A</a> Q1, Q5, Q6, Q8, Q9 <a href="#">2013Rsec B</a> Q1b		<a href="#">2014Rsec B</a> Q1b, c(iii)(command word) <a href="#">2014secB</a> Q1(command words) <a href="#">2013Rsec B</a> Q1a(command word)
Transition Metals	<a href="#">2014secB</a> Q4a,b,c,e <a href="#">2013Rsec A</a> Q10 <a href="#">2013 Rsec B</a>		<a href="#">2014sec B</a> Q4d (command word) <a href="#">2013 Rsec B</a> Q5a (command word) Q5d(i) (command word)

	<a href="#">Q5c,Q5d(ii)(iii)</a> <a href="#">2013sec A</a> Q9 <a href="#">2013secB</a> Q5		
Chemical Equilibrium	<a href="#">2014Rsec A</a> Q12 <a href="#">2014sec A</a> Q12, Q13 <a href="#">2014Rsec B</a> Q5c,Q13 <a href="#">2013Rsec A</a> Q13,Q14, Q15, Q16, Q17, Q18 <a href="#">2013Rsec B</a> Q6		
Reaction feasibility	<a href="#">2014Rsec B</a> Q3a,b <a href="#">2013Rsec A</a> Q19, Q20 <a href="#">2013sec A</a> Q27 <a href="#">2013Rsec B</a> Q2		
Kinetics	<a href="#">2014Rsec A</a> Q13,Q14 <a href="#">2014Rsec B</a> Q11 <a href="#">2013Rsec B</a> Q8b,c,d,e		<a href="#">2013Rsec B</a> Q8a (command word)
<b>Organic Chemistry and Instrumental Analysis</b>			
Molecular orbitals	<a href="#">2014Rsec A</a> Q15 <a href="#">2013Rsec B</a> Q1c		
Molecular Structure	<a href="#">2013 Rsec B</a> Q7a,b <a href="#">2012 sec B</a>		<a href="#">2011 sec B</a> Q12b(i) (command word)

	Q12a		
Stereo Chemistry	<a href="#">2014Rsec A</a> Q16, Q17 <a href="#">2014Rsec B</a> Q9a,		<a href="#">2012 sec B</a> Q12b (command word)
Synthesis	<a href="#">2014Rsec A</a> Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, <a href="#">2014sec A</a> Q28 <a href="#">2014Rsec B</a> Q5a, Q6a,b, Q7b(i), Q8a,b(i)(ii), Q9b(iii), <a href="#">2013Rsec A</a> Q22, Q23, Q24, Q25, Q26,Q27, Q28, ,Q30 <a href="#">2013sec A</a> Q37 <a href="#">2013Rsec B</a> Q10 b,c,e, Q11a,b <a href="#">2013sec B</a> Q11a,Q13		<a href="#">2014Rsec B</a> Q6c,Q8b(iii) (command words) <a href="#">2013Rsec B</a> Q10a,d (command words) <a href="#">2013sec B</a> Q11b (command word)
Experimental Determination of Structure	<a href="#">2014Rsec A</a> Q26, Q27, Q28,Q29 <a href="#">2013Rsec B</a> Q7c, Q12c,d	<a href="#">2013sec B</a> Q12 C/S	<a href="#">2013Rsec B</a> Q12b (command word)
Pharmaceutical Chemistry	<a href="#">2014Rsec A</a> Q30 <a href="#">2014Rsec B</a> Q1e <a href="#">2013Rsec A</a> Q29 <a href="#">2011 sec B</a> Q10b		<a href="#">2014Rsec B</a> Q7a (command word)  <a href="#">2013Rsec B</a> Q7d (command word) and change MI <a href="#">2013sec B</a> Q11c (change word pharmacophore)  <a href="#">2011sec B</a>

			Q10a (command word) (change marking scheme)
<b>Researching Chemistry</b>			
Gravimetric analysis	<a href="#">2014Rsec B</a> Q12a(ii)		
Volumetric analysis	<a href="#">2014sec A</a> Q10 <a href="#">2014Rsec B</a> Q2c,d <a href="#">2013 Rsec B</a> Q9		
Practical skills and techniques	<a href="#">2013Rsec A</a> Q21 <a href="#">2013Rsec B</a> Q4c	<a href="#">2012sec B</a> Q6 change to solvent extraction	<a href="#">2014Rsec B</a> Q5b (command word) <a href="#">2013Rsec B</a> Q4a,b (command word)
Stoichiometric Calculations	<a href="#">2014Rsec B</a> Q2b,Q7b(ii), Q9b(ii),Q12a(i),b <a href="#">2014sec B</a> Q4f(i) <a href="#">2013Rsec A</a> Q11, Q12 <a href="#">2013sec A</a> Q16 <a href="#">2013Rsec B</a> Q5b, Q12a		<a href="#">2014sec B</a> Q4f(ii)(iii) (command word)
Open questions	<a href="#">2014Rsec B</a> Q4,Q10 <a href="#">2013Rsec B</a> Q3,Q11c		
<b>Resources</b>			
SQA past papers <a href="http://www.sqa.org.uk/pastpapers/findpastpaper.htm">www.sqa.org.uk/pastpapers/findpastpaper.htm</a>	Additional assessment support material is available here:  Education Scotland <a href="http://www.educationscotland.gov.uk/">www.educationscotland.gov.uk/</a>  Glow <a href="http://www.educationscotland.gov.uk/usingglowandict/">www.educationscotland.gov.uk/usingglowandict/</a>		

Glow Log-in

<https://secure.glowscotland.org.uk/login/login.htm>