

## Guidance on the use of past paper questions for National 5 Chemistry

The new Courses at National 5 draw on the strengths of popular areas of study from Standard Grade and Intermediate 2 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 National 5 Course assessment. The advice in this document reflects questions selected from 2011 to 2013 [past papers](#). (If you click on the highlighted links in the columns below, this will take you to the relevant past paper.)

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 National 5 Specimen Question Paper.
- ◆ You may be able to use questions as published or with amendments as suggested in the columns below for Standard Grade and Intermediate 2.
- ◆ You must use questions that adhere to the National 5 General Marking Principles and reflect the form of detailed Marking Instructions as published in the National 5 Specimen Question Paper.

If any change to a Standard Grade/Intermediate 2 question is necessary, you must ensure that:

- ◆ The style and structure matches the Specimen Question Paper for National 5.
- ◆ Marking of the learner's response to the question adheres to the General Marking Principles in the National 5 Specimen Question Paper
- ◆ Marking Instructions are amended to reflect the style of the National 5 detailed Marking Instructions.

The details below for National 5 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 N3-N5 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.

<b>Information from the Course Assessment Specification</b>  Each Section of the Question paper will be made up of restricted/extended response questions. Questions will <b>sample</b> the knowledge and understanding and apply skills described in the <b>Further mandatory information on Course coverage</b> .	<b>The columns below identify additional support questions from Standard Grade and Intermediate 2 Past Papers 2011, 2012 and 2013.</b>				
	<b>Standard Grade Credit</b>		<b>Intermediate 2</b>		
	Use question as published	Amend question style/structure	Use question as published	Amend question context/source	Amend question style/structure
<b>Chemical Changes and Structure</b>					
Rates of reaction		<a href="#">2012 Q13(b) ii — Str</a>  <a href="#">2013 Q18(a) I — Str</a> (Change question to calculate the average rate over a given time.)	<a href="#">2012 B Q2(a) i</a> <a href="#">2012 B Q11(c)</a>  Higher questions: <a href="#">2011 B Q1(b) i</a>  <a href="#">2012 B Q2(b) i</a>	<a href="#">2012 B Q2(a) ii</a>	<a href="#">2011 B Q4(b) — Str</a>  <a href="#">2012 B Q11(a) — Str</a>
Atomic structure and bonding related to properties of materials	<a href="#">2011 Q12(b) i &amp; ii</a> <a href="#">2011 Q16(b) ii</a> <a href="#">2011 Q18(c)</a>  <a href="#">2012 Q13(a)</a> <a href="#">2012 Q15(d)</a> <a href="#">2012 Q18</a>  <a href="#">2013 Q10</a> <a href="#">2013 Q11(a) i</a> <a href="#">2013 Q16(b) ii</a> <a href="#">2013 Q17(a) &amp; (b)</a>	<a href="#">2011 Q4(b) — St/Str</a>  <a href="#">2012 Q4(a) — St</a>	<a href="#">2011 A Q8</a> <a href="#">2011 B Q1</a> <a href="#">2011 B Q2</a> <a href="#">2011 B Q4(a) ii</a> <a href="#">2011 B Q15(b)</a>  <a href="#">2012 A Q4</a> <a href="#">2012 A Q5</a> <a href="#">2012 A Q9</a>  <a href="#">2013 B Q4</a> <a href="#">2013 B Q6(c)</a>	<a href="#">2013 B Q6(b) — S</a>	

	Standard Grade Credit		Intermediate 2		
Formulae and reaction quantities	<a href="#">2011 Q17(b)</a> <a href="#">2011 Q20(a) i, (c) ii</a>  <a href="#">2012 Q15(a)</a> <a href="#">2012 Q17(b)</a> <a href="#">2012 Q21(c) ii</a>  <a href="#">2013 Q17(c)</a> <a href="#">2013 Q18(b) i</a>		<a href="#">2011 B Q3(a) &amp; (d)</a>  <a href="#">2012 A Q11</a> (Formulae and reaction quantities outside Unit 1.) <a href="#">2012 B Q2(b)</a> <a href="#">2012 B Q15(a) i &amp; ii</a>  <a href="#">2013 A Q2</a> <a href="#">2013 A Q8</a> <a href="#">2013 A Q9</a> <a href="#">2013 A Q21</a>	<a href="#">2011 B Q5(b)</a> (Formulae and reaction quantities outside Unit 1.)  <a href="#">2013 B Q6(a)</a>	<a href="#">2012 B Q4(c)</a> — Str  <a href="#">2013 B Q12(c)</a> — Str
Acids and bases	<a href="#">2011 Q14(a)</a> <a href="#">2011 Q20(b)</a>  <a href="#">2012 Q15(b)</a> <a href="#">2012 Q17(a) i &amp; ii</a>	<a href="#">2011 Q5(b) — St</a> <a href="#">2011 Q6(a) — St</a> <a href="#">2011 Q14(b) — St</a>  <a href="#">2013 Q2(c) — St</a> <a href="#">2013 Q5 — St/Str</a>	<a href="#">2011 A Q22</a> <a href="#">2011 A Q25</a> <a href="#">2011 B Q15(a)</a>  <a href="#">2012 A Q22</a> <a href="#">2012 B Q13(b) i &amp; ii</a> <i>(Not on topic but uses skills not covered until later in Course.)</i>  <a href="#">2013 A Q18</a> <a href="#">2013 A Q20</a> <a href="#">2013 A Q22</a>	<a href="#">2013 B Q2(d)</a> — C	

	Standard Grade Credit		Intermediate 2			
<b>Nature's Chemistry</b>						
Homologous series	<a href="#">2011 Q16(a)</a> <a href="#">2011 Q22</a>  <a href="#">2012 Q20(c)</a>	<a href="#">2012 Q5(a) &amp; (c) — St</a>	<a href="#">2011 A Q12</a> <a href="#">2011 A Q13</a> <a href="#">2011 A Q14</a> <a href="#">2011 B Q8(a)</a>  <a href="#">2012 A Q11</a> (Formulae and reaction quantities outside Unit 1.)  <a href="#">2013 A Q10</a> <a href="#">2013 A Q12</a> <a href="#">2013 A Q15</a> <a href="#">2013 B Q8(c)</a>	<a href="#">2012 B Q8(a)</a> & (c) — C <a href="#">2012 B Q5(a)</a>		
Everyday consumer products	<a href="#">2013 Q15(c) &amp; (d)</a>	<a href="#">2012 Q6(b) — St</a>  <a href="#">2013 Q15(a) — St</a>	<a href="#">2011 B Q9(c)</a>  <a href="#">2012 B Q7(a)</a> & (c)  <a href="#">2013 B Q9(b) i</a> <a href="#">2013 B Q13(a)</a> i & ii			
Energy from fuels			<a href="#">2012 B Q5(b) i</a> & ii			Higher Questions: <a href="#">2011 B Q14(b)</a> — Str

	Standard Grade Credit		Intermediate 2		
<b>Chemistry in Society</b>					
Metals	<a href="#">2011 Q18(a) &amp; (b)</a> <a href="#">2011 Q21</a>  <a href="#">2012 Q13(b) i</a> <a href="#">2012 Q16</a> <a href="#">2012 Q19</a> <a href="#">2012 Q21(c) i</a>  <a href="#">2013 Q14</a> <a href="#">2013 Q16(b) i</a>	<a href="#">2011 Q5(b) — St</a>  <a href="#">2011 Q9 — St/Str</a>  <a href="#">2013 Q3(a) — St</a>	<a href="#">2011 A Q7</a> <a href="#">2011 B Q12(a)</a> <a href="#">2011 B Q14(a), (b) &amp; (c)</a>  <a href="#">2013 A Q26</a> <a href="#">2013 A Q27</a> <a href="#">2013 A Q29</a> <a href="#">2013 B Q1(b)</a> <a href="#">2013 B Q15(b)</a>	<a href="#">2012 A Q23 — S</a>	
Properties of plastics	<a href="#">2011 Q13(a)</a>  <a href="#">2012 Q20(a) &amp; (b)</a>	<a href="#">2013 Q6(a) — St</a> <a href="#">2013 Q6(b) — St</a>	<a href="#">2011 B Q10(a) i</a>  <a href="#">2012 A Q16</a>  <a href="#">2013 B Q10(b) i &amp; ii</a>	<a href="#">2011 B Q5(b) (Formulae and reaction quantities outside Unit 1.)</a>	<a href="#">2011 B Q7 — Str</a>
Fertilisers	<a href="#">2011 Q19(a)</a> <a href="#">2011 Q19(b) i &amp; ii</a>  <a href="#">2012 Q12(b) &amp; (c)</a> <a href="#">2012 Q15(c)</a>	<a href="#">2012 Q12(a) — Str</a>			
Nuclear chemistry — All from Higher Papers			Higher Questions: <a href="#">2011 A Q40</a> <a href="#">2011 B Q12(b) &amp; (c) i</a>  <a href="#">2012 B Q4(a),(b) i &amp; (c)</a>		

	Standard Grade Credit		Intermediate 2	
Chemical analysis	<a href="#">2011 Q20(c) i &amp; (d)</a> <a href="#">2013 Q18(b) ii</a> (Chemical analysis questions related to Unit 1)		<a href="#">2011 B Q11(c) ii &amp; iii</a> (Chemical analysis questions related to Unit 2)	
Problem solving — not linked to any specific key area	<a href="#">2011 Q12(b) i &amp; ii</a> <a href="#">2012 Q17(a) i &amp; ii</a> <a href="#">2012 Q18</a>		<a href="#">2011 B Q9(d)</a> <a href="#">2011 B Q13</a> <a href="#">2013 A Q15</a> <a href="#">2013 B Q9(a)</a>	
Resources				
SQA past papers <a href="http://www.sqa.org.uk/pastpapers/findpastpaper.htm">www.sqa.org.uk/pastpapers/findpastpaper.htm</a>	Additional National 5 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 <a href="https://secure.glowscotland.org.uk/login/login.htm">https://secure.glowscotland.org.uk/login/login.htm</a>			