

# Engineering Science

**3**  
UNITS

ENGINEERING CONTEXTS AND CHALLENGES  
ELECTRONICS AND CONTROL  
MECHANISMS AND STRUCTURES

The Scottish Qualifications Authority National 5 Engineering Science subject webpage: [www.sqa.org.uk/sqa/47458.html](http://www.sqa.org.uk/sqa/47458.html)

The Revision in a Nutshell series is designed to complement learning and revision that you have undertaken in class. Please check with your teachers that these resources are relevant to you. You can find the series at [www.parentforumscotland.org](http://www.parentforumscotland.org)

## Specimen Paper and Past Papers

The SQA Specimen Paper and marking instructions for National 5 Engineering Science: [www.sqa.org.uk/files\\_ccc/EngineeringScienceSQPN5.pdf](http://www.sqa.org.uk/files_ccc/EngineeringScienceSQPN5.pdf) along with the Data Booklet: [www.sqa.org.uk/files\\_ccc/EngineeringScienceDataBookletSQPN5.pdf](http://www.sqa.org.uk/files_ccc/EngineeringScienceDataBookletSQPN5.pdf)

After completing the SQA Specimen Question Paper (exam) or any past paper questions, ensure that you look at the marking instructions as these often contain course content and they will help you to improve your exam technique. National 5 Question Papers differ from past papers. Ensure that you familiarise yourself with the Specimen Paper: this is what your exam will look like.

### Past Papers

Useful SQA past paper questions are listed and organised by topic with guidance: [www.sqa.org.uk/files\\_ccc/EngineeringSciSQPN5PPGuidance.pdf](http://www.sqa.org.uk/files_ccc/EngineeringSciSQPN5PPGuidance.pdf)

In the table below you will find links to questions relevant to the different topics within National 5 Engineering Science. Please note that you need to identify your topics. Some topics are new for National 5 and therefore do not have past questions; be sure to revise all of your topics. Other past paper questions, which require some wording to be changed to make them appropriate for National 5, can be found at [www.sqa.org.uk/files\\_ccc/EngineeringSciSQPN5PPGuidance.pdf](http://www.sqa.org.uk/files_ccc/EngineeringSciSQPN5PPGuidance.pdf). Marking instructions for past papers can be accessed in the column 'Answers'.

Paper Name and Year	Question Numbers	Answers
Standard Grade Credit		
<b>2013</b> <a href="http://tinyurl.com/oqsfkqh">http://tinyurl.com/oqsfkqh</a>	1a, 2a, 2b, 2d, 2e, 3c, 3d, 3e, 4a, 4b, 4c, 4d, 4f, 6a, 6b, 6c, 8a, 10a, 10b	<a href="http://tinyurl.com/qx3tcrr">http://tinyurl.com/qx3tcrr</a>
<b>2012</b> <a href="http://tinyurl.com/oecejsd">http://tinyurl.com/oecejsd</a>	3a, 4b, 4c, 5a, 5b, 5d, 6a, 7a, 7c, 7e, 8a, 8c, 9c, 9d, 10a, 10b	<a href="http://tinyurl.com/njhdkma">http://tinyurl.com/njhdkma</a>
<b>2011</b> <a href="http://tinyurl.com/qhk8o9k">http://tinyurl.com/qhk8o9k</a>	2a, 2b, 2d, 2e ii, 2f, 3a, 3b i, 3d, 5a, 5b, 5c, 5d ii, 6a, 6b, 6c, 8a, 8b	<a href="http://tinyurl.com/plqak5h">http://tinyurl.com/plqak5h</a>
Intermediate 2		
<b>2013</b> <a href="http://tinyurl.com/p57eu29">http://tinyurl.com/p57eu29</a>	2a, 2b, 2c, 4a, 4b, 5b, 6a, 6b, 8a, 8b, 9a, 9d, 9f iii, 9g, 10c, 11a, 11b	<a href="http://tinyurl.com/p54bpwm">http://tinyurl.com/p54bpwm</a>
<b>2012</b> <a href="http://tinyurl.com/ohaputl">http://tinyurl.com/ohaputl</a>	1a, 1b, 1c, 2a, 7a, 7b, 8a, 8b, 9a, 9b, 9c, 10b, 10f, 10g, 10h, 10i, 11d, 11e	<a href="http://tinyurl.com/p5s7jog">http://tinyurl.com/p5s7jog</a>
<b>2011</b> <a href="http://tinyurl.com/pn36org">http://tinyurl.com/pn36org</a>	2a, 2b, 3a, 3b, 5b, 6a, 6b, 7b i, 8a, 9a, 9b, 9d, 9e i, 9f, 9g, 10a, 10b, 11a, 11b, 11d, 11e	<a href="http://tinyurl.com/qgmp2v2">http://tinyurl.com/qgmp2v2</a>

## Useful Websites

### BBC

[www.bbc.co.uk/education/subjects/zphfcdm](http://www.bbc.co.uk/education/subjects/zphfcdm)

### Schools

#### Musselburgh Grammar School

[www.edubuzz.org/TECHSTUDS/standard-grade/](http://www.edubuzz.org/TECHSTUDS/standard-grade/)  
Click on Resources pages

#### Thurso High

<http://tinyurl.com/qeakfep>  
Huge list of resource sites and powerpoint presentations

### Others

#### GCSE Bitesize

[www.bbc.co.uk/schools/gcsebitesize/](http://www.bbc.co.uk/schools/gcsebitesize/)  
Search by topic



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