

$$E = \frac{1}{2}mv^2$$

REVISION

NATIONAL
5

Physics

3
UNITS

**ELECTRICITY AND ENERGY
WAVES AND RADIATION
DYNAMICS AND SPACE**

The Scottish Qualifications Authority National 5 Physics subject webpage can be found [here](#).

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.parentforumsotland.org

Specimen Paper and Past Papers

The SQA Specimen Paper and marking instructions for National 5 Physics can be found [here](#) with the [Physics National 5 Data Sheet](#) and [Physics National 5 Relationship Sheets Physics](#).

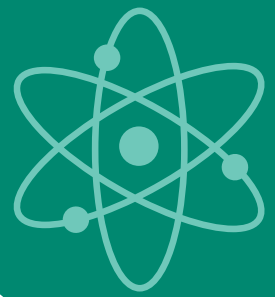
After completing the SQA Specimen Question Paper (exam) or any past paper questions, ensure that you look at the marking instructions as these often contain course content and they will help you to improve your exam technique. National 5 Question Papers differ from past papers. Ensure that you familiarise 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 [here](#). For direct links to past papers, click on the year in the table below (ie click on 2013) where you will find questions relevant to the different topics within National 5 Physics. Some topics are new for National 5 and therefore do not have past questions; be sure to revise all of the topics. Marking instructions for past papers can be accessed in the column 'Answers'. Other past paper questions, which require some wording to be changed to make them appropriate for National 5, can be found [here](#).

Paper Name and Year	Unit/Paper Number & Title	Question Numbers	Answers
Standard Grade Credit			
2013	N/A	1c, 1d, 2b iv, 3b i, 3c, 3d, 4a, 4b, 4c, 4d, 5c, 6a, 6b, 6c i, ii, 8b i, ii, 8c ii, 10a, 10b, 10d, 13a, 13b i, ii, 13c, 13d i, ii, 14b, 14c	Marking instructions
2012	N/A	1b i, ii, 2b, 3a i, ii, iii, 3b i, 4a, 5b i, ii, 6a, 6b i, ii, 6c, 6d, 7a, 7b iii, 9c, 9d i, ii, 10c i, ii, 11c, 13a, 13c, 14b, 14d	Marking instructions
2011	N/A	1a i, ii, 1b, 3a, 3b i, ii, 6a i, iii, 6b, 6c i, ii, 7a, 7b, 7c, 10c ii, 11a, 12a, 14a i, ii, 14b, 15a, 15b, 15c	Marking instructions
Intermediate 2			
2013	N/A	1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 17, 18, 19, 20, 21a, 21c, 22b iv, 24a, 24b, 25a, 25b i, ii, 25c, 26b, 26c, 26d i, ii, 26e, 28a i, ii, 28b, 28c, 28d, 30c, 31a	Marking instructions
2012	N/A	2, 5, 7, 11, 14, 15, 17, 18, 19, 20, 21a ii, 21b, 21c ii, iii, 22a ii, 22b, 22c, 22d, 23a i, ii, 24a, 24b, 25a, 25b, 26b, 26c, 26d, 27a, 27b, 29a, 29b, 29c, 30a iii	Marking instructions
2011	N/A	1, 4, 5, 6, 7, 8, 10, 12, 15, 16, 17, 18, 19, 22a i, ii, 22b, 23b, 23c, 23d, 23e, 24a i, ii, iii, 24b i, ii, 24c, 25a, 25b, 25c, 26a, 27a, 27b, 27c, 28a i, ii, 28b, 28c, 29a i, ii, iii, 29b	Marking instructions

$$E = \frac{1}{2} m v^2$$



Useful Websites

[BBC Bitesize](#)

[SQA](#)

Schools

[Queensferry High](#)
National 4/5 Summary notes look useful

[Harris Academy](#)

[Carluke High School](#)
Summary notes

[Calderglen High School](#)
Notes

[Kirkwall Grammar School](#)

[Paisley Grammar School](#)
Waves and radiation. Read summary notes only in particular pp9-22. Questions have no answers

[St Columba's School](#)
Dynamics and space

[John Ogilvie High School](#)
Electricity and energy questions (answers from p68)



Others

[Quizlet](#)
Waves and radiation



 the National Parent
Forum of Scotland

www.parentforumscotland.org
enquiries@parentforumscotland.org

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