

Parents Information Evening

5th September 2017



National 4 Science

Teachers

Miss Hamilton

4 Periods per week

Monday period 5
Tuesday period 7
Thursday periods 6 & 7

COURSE EXPERIENCE

CfE Nat 4 Science
2015-2016, 2016-2017

Mrs Minto

1 Period per week

Tuesday period 6



[National 4 Science course notes](#)

Classroom Experience

The aims of the National 4 Course are to enable learners to :

Develop and apply knowledge and understanding of science.

Develop an understanding of science's role in scientific issues and relevant applications of science in society and the environment.

Develop scientific inquiry and investigative skills.

Develop scientific analytical thinking skills in a science context.

Develop the use of technology, equipment and materials, safely, in practical scientific activities.

Develop problem solving skills in a science context.

Use and understand scientific literacy, in everyday contexts, to communicate ideas and issues.

Unit 1 - Fragile Earth



The two key areas covered are:

Energy – conflicts and issues associated with production and use of energy, including generation of power from a range of sources (fossil fuels, plants, renewable), risks and benefits of energy sources, sustainable use of energy.

Metals – conflicts and issues with the extraction of metals, including properties of metals, methods of extraction, abundance and sources, impact of metal extraction on the environment and recycling of metals.

Unit 2 – Human Health



The three key areas covered are:

What is health? – How to keep healthy and understanding the impact of nutrition on health.

Threats to health – preventative measure including the understanding of the immune system and the use of vaccines.

Health claims – review articles and information in the media.

Unit 3 - Applications of Science



The three key areas covered are:

Telecommunications – principles and applications of telecommunications, uses and properties of electromagnetic waves.

Materials – including properties of substances, properties and uses of novel materials, and impacts, risks and benefits of their use.

Risks and health and safety – measures associated with science at work including chemical, radiation and electrical risks and safety.

Outcome 1

A scientific report of an experiment or practical investigation

The report must include:

- A plan of the experiment including safety procedures
- Observations/measurements
- Results
- Conclusions
- Evaluation

Only one report needs to be completed to pass the course.

Outcome 2

A set of questions.

Students are given questions covering
KU & PS under exam conditions.

There is a set of questions for each of the key areas in
the three units.

Fragile Earth

Human Health

Applications of Science

KU needs to be passed in each test
Each PS skill needs to be passed once over the course.

Added Value Assessment

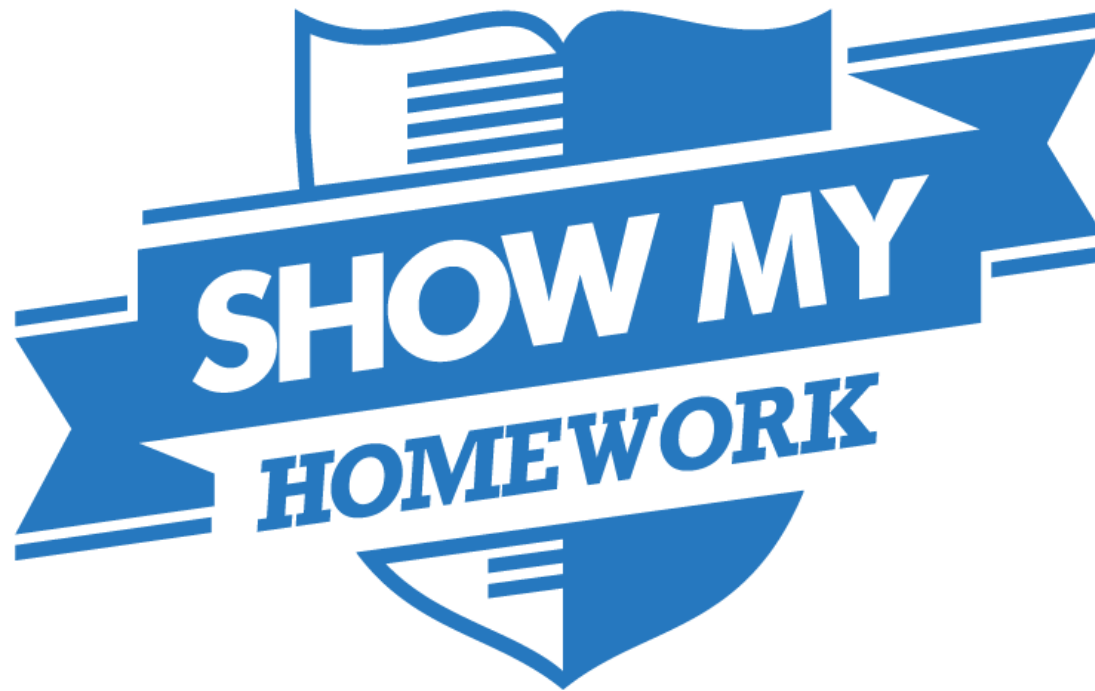
Students investigate a topical issue in science and its impact on society/the environment by:

- Choosing a relevant issue in science
- Researching the issue
- Presenting appropriate information
- Explaining the impact, in terms of the science involved
- Communicating their findings
- They gather information over several weeks and are given no more than 2 hours under supervised conditions to write up their findings under open-book conditions.

Only one added value is required for the course.



Home Learning



[Log in](#)

Has your young person logged into
their account yet?

Have you?



Personal Support



Tues. Period 3 each week

Developing the Young Workforce



Do you work in the
Science Sector?

Would a pupil or a
member of staff
benefit from a work
placement at your
place of work?

Do you have
knowledge or
experience of the
world of work that
you would be
willing to share
with our learners?



Can you help us?



Keeping in touch

T&M reports issued

19th Sept. 2017

7th Nov. 2017

19th Dec. 2017

2nd Mar. 2018

Parents Consultation Evening

14th November
2017 (S4)

22nd November
2017 (S5&6)

GLOW email

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