



STEM Academy

NPA

Science & Technology

*If you are thinking about your future, getting into
STEM could be the best choice you could make.*



Course overview

This course will help you to develop your knowledge and understanding of science and engineering in relation to applications in everyday life and provides an entry level point if you want to pursue a career in the science and engineering sectors.

This is particularly important given the existing and projected shortfall in suitably qualified individuals in these areas.

You will:

- develop an understanding of biology, chemistry, physics and engineering
- be able to apply knowledge to understand developments in new technology
- develop practical skills
- develop an understanding of health and safety practices
- develop an awareness of the Essential Skill of Sustainable Development

Your studies will provide opportunities to develop:

- transferable skills
- employability skills
- The NPA provides an ideal foundation to the subject and, due to the involvement of practical skills, gives learners the opportunity to gain a basic but realistic experience of STEM and so allow informed choice for future study.

On completion of the course you could progress to:

- Level 5 science and engineering courses
- Pre-Apprenticeships

How to get a place

Only 60 places are available for S4 students across Edinburgh, East Lothian and Midlothian. Studies will be project based.

The course will be based at Midlothian and Sighthill Campuses. There is an all girls course group available at Sighthill Campus.

If you would like to learn more about the STEM Academy and the selection process, please make an appointment with your Guidance Teacher.

What can I do next?

Here are some of the careers which a STEM qualification could eventually lead to.

- Physical Science Careers
- Astronomer
- Audio and Video Equipment Technician
- Aviation Inspector
- Chemical Technician
- Chemist
- Chemistry Teacher *In Demand!*
- Electrician *In Demand!*
- Film and Video Editor
- Food Science Technician
- Food Scientist or Technologist
- Forensic Science Technician
- Nuclear Monitoring Technician
- Nuclear Power Reactor Operator
- Occupational Health & Safety Specialist
- Physicist
- Physics Teacher *In Demand!*
- Pilot
- Power Distributor & Dispatcher
- Power Plant Operator
- Precision Instrument & Equipment Repairer
- Ship & Boat Captain
- Sound Engineering Technician

Why choose STEM?

A STEM (Science, Technology, Engineering and Maths) qualification could lead to an exciting and rewarding career. It offers great employment prospects and can increase your earning potential.

The Government has identified STEM as a national priority, to increase students' STEM skills in order to:

- provide employers with the skills they need in their workforce;
- help to maintain the UK's global competitiveness;
- make the UK a world-leader in science-based research and development.



- **72 per cent of all UK businesses rely on people with STEM skills.**
- **58 per cent of all new jobs will be STEM related.**

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