

# Science & Technology



## Consider Options\* Age 14

Level 1	Level 2
Engineering Diploma – Foundation	Higher
GCSE Chemistry	
GCSE Physics	
GCSE Biology	
GCSE Science	
GCSE Applied Science	
GCSE Maths	
GCSE Statistics	
	Young Apprenticeship in Engineering
	GCSE Environmental Science
GCSE Food Technology	
GCSE Maths	
GCSE Design Technology – Product Design	

Scientists, mathematicians and statisticians use observation, experimentation and research to make discoveries, add to our knowledge and solve problems related to almost every aspect of our lives.

Work may be in a wide range of areas, including:

- health and medicine - researching the causes of diseases and developing drugs
- the food and drink industry - researching and developing new products
- earth sciences and the environment - studying the Earth, oceans and climate
- materials science - studying the properties of materials such as metals, polymers and ceramics to provide innovative engineering solutions
- mathematics - solving problems and analysing data in a wide range of areas such as engineering, electronics, finance, medicine, meteorology and science
- statistics - gathering data and analysing it to identify and interpret trends
- education - teaching in schools or lecturing in universities.

Scientists, mathematicians and statisticians need to have a methodical and accurate approach to their work and be self-disciplined when analysing data to solve problems. Communication skills are important for sharing information with colleagues and customers. Scientists must also pay attention to health and safety regulations.

Entry is usually with a relevant degree, and often a postgraduate qualification. Some jobs require work experience as well. It is also possible to work as a technician or assistant, for which the entry requirements are usually GCSEs.

For Apprenticeships: [www.apprenticeships.org.uk](http://www.apprenticeships.org.uk)

\*These are local examples of the kinds of courses available.

Please use the Area Wide Prospectus [www.myfuturesussex.com](http://www.myfuturesussex.com) for further information

## Consider Options\* Age 16

Level 1	Level 2	Level 3
Engineering Diploma – Foundation	Higher	Advanced
GCSE Chemistry		AS/A2 Chemistry
GCSE Physics		AS/A2 Physics
GCSE Biology		AS/A2 Biology
GCSE Science		
GCSE Applied Science		AS/A2 Science and Society
GCSE Statistics		AS/A2 Statistics
	GCSE Environmental Science	Biomedical Science Access to HE
		International Baccalaureate
GCSE Food Technology		AS/A2 level Food Technology
GCSE Design Technology – Product Design		A Level Design Technology – Product Design

### Possible Future Directions

- Chemical Engineer
- Civil Engineer
- Health and Safety Adviser
- Maintenance Engineer
- Project Manager
- Site Engineer
- Structural Engineer
- Technician
- Water and Environmental manager
- Analytical Chemist
- Bacteriologist
- Biochemist
- Biomedical Scientist
- Ecologist
- Food Scientist
- Immunologist
- Laboratory Technician
- Statistician
- Toxicologist
- Zoologist
- Teacher
- Lecturer

Providers offering:		
Blatchington Mill School	Hove Park School	City College Brighton & Hove
Cardinal Newman Catholic School	Longhill School	Northbrook College
Dorothy Stringer School	Patcham High School	Varndean College
Falmer High School	Portslade Community College	BHASVIC
	Varndean School	Sussex Downs College

