

Curriculum links

Activity	Breadth of Study	How Science Works	Links to GCSE specifications (Science core unless otherwise stated)
	<i>In the study of science, the following should be covered...</i>	<i>Pupils should be taught to...</i>	
1. What happened to the holly leaf-miner?	Organisms and Health 5a) Organisms are interdependent and are adapted to their environments	DETS 1a) understand how scientific data can be collected and analysed b) how interpretations of data, using creative thought, provides evidence to test ideas and develop theories PES 2b) collect data from primary... sources, including using ICT sources and tools c) work accurately and safely, individually and with others, when collecting first-hand data d) evaluate methods of collection of data and consider their validity and reliability as evidence	OCR 21: B3.4 (1-4) OCR G: B2d AQA: 11.4 (A&B) Edex: B1a 1.1, 1.4 & 1.5 (Additional sci.) B2 4.1
2. Does air quality vary within the Squares?	Chemical and material behaviour 6a) Chemical change takes place by the rearrangement of atoms in substances Environment, Earth and Universe 8a) the effects of human activity on the environment can be assessed using living and non-living indicators	DETS 1a) understand how scientific data can be collected and analysed b) how interpretations of data, using creative thought, provides evidence to test ideas and develop theories PES 2b) collect data from primary... sources, including using ICT sources and tools c) work accurately and safely, individually and with others, when collecting first-hand data d) evaluate methods of collection of data and consider their validity and reliability as evidence AIS 4b) consider how and why decisions of science and technology are made, including those that raise ethical issues, and about the social, economic and environmental effects of such decisions.	OCR 21: C1.1 (6) OCR G: C2f AQA: 11.8 (A-C) Edex: (Additional sci.) B2 4.3 & 4.4

OCR 21
OCR G

OCR 21st century Science
OCR Gateway Science

AQA
Edex

AQA A & B
Edexcel

DETS
PES
AIS
CS

Data, evidence, theories and explanations
Practical and enquiry skills
Applications and implications of science
Communication skills

Activity	Breadth of Study	How Science Works	Links to GCSE specifications (Science core unless otherwise stated)
	<i>In the study of science, the following should be covered...</i>	<i>Pupils should be taught to...</i>	
3. Photosynthesis in sun and shade	Organisms and Health 5b) Variation within species can lead to evolutionary changes and similarities and differences between species can be measured and classified	DETS 1a) understand how scientific data can be collected and analysed PES 2b) collect data from primary... sources, including using ICT sources and tools c) work accurately and safely, individually and with others, when collecting first-hand data	OCR 21: B3.4 (1&2) OCR G: B2a&c AQA: 11.5 (A&B) Edex: (Additional sci.) B2 3.1
4. Investigating the effects of trampling	Organisms and Health 5a) Organisms are interdependent and are adapted to their environments Environment, Earth and Universe 8a) the effects of human activity on the environment can be assessed using living and non-living indicators	PES 2b) collect data from primary... sources, including using ICT sources and tools c) work accurately and safely, individually and with others, when collecting first-hand data d) evaluate methods of collection of data and consider their validity and reliability as evidence CS 3a) recall, analyse, interpret, apply and question scientific information or ideas	OCR 21: B3.4 (1&2) OCR G: B2a AQA: 11.5 (A&B) Edex: (Additional sci.) B2 4.2
5. Which trees have the highest biodiversity?	Organisms and Health 5a) Organisms are interdependent and are adapted to their environments 5b) Variation within species can lead to evolutionary changes and similarities and differences between species can be measured and classified	DETS 1a) understand how scientific data can be collected and analysed b) how interpretations of data, using creative thought, provides evidence to test ideas and develop theories PES 2b) collect data from primary... sources, including using ICT sources and tools c) work accurately and safely, individually and with others, when collecting first-hand data d) evaluate methods of collection of data and consider their validity and reliability as evidence	OCR 21: B3.4 OCR G: B2a&b AQA: 11.5 (A-C) Edex: B1.1&1.9 (Additional sci.) B2 4.3&4.4