

Science GCSE

Key Information

Contact:	Ms S Shellard sshellard@westonfavellacademy.org
Exam Board:	Edexcel
Summary of subject:	<p>Core Science Topics</p> <ul style="list-style-type: none"> Biology: Classification, variation and inheritance, responses to a changing environment, problems and solutions to a changing environment. Chemistry: The Earth's sea and atmosphere, materials from the Earth, acids, metals, fuels. Physics: Visible light and the Solar system, the E.M. spectrum, waves and the Universe, waves and the Earth, generation and transmission of electricity, energy and the future. <p>Additional Science Topics</p> <ul style="list-style-type: none"> Biology: The building blocks of cells, organisms and energy, cell division, the structure of the heart and the circulatory system. Chemistry: Atomic structure and the periodic table, ionic compounds, covalent compounds and separation techniques, groups in the periodic table, chemical reactions, quantitative reactions. Physics: Static and current electricity, forces and motion, momentum, energy and power, nuclear fission and fusion reactions, using radioactive materials. <p>Further Additional Science Topics</p> <ul style="list-style-type: none"> Biology: Control systems, behaviour, biotechnology Chemistry: Quantitative and qualitative analysis, electrolysis, organic chemistry, biofuels. Physics: Radiation, motion, kinetic theory, gas laws
Exam dates:	<p>Core = Biology 17th May pm, Chemistry 19th May am, Physics 25th May pm</p> <p>Additional = Biology 10th June am, Chemistry 15th June pm, Physics 17th June am</p> <p>Further Additional = Biology 20th June am, Chemistry 22nd June am, Physics 24th June am</p>

How can I support my child at home?

Recommended Websites:

- <http://qualifications.pearson.com/> - Navigate to past papers, GCSE, Science, Mixed route 2011 and download past papers, mark schemes and examiners reports.
- <http://www.gcsepod.com> - Contains specific pod casts designed to support all aspects of GCSE Science. It should be used in conjunction with the Science revision timetable.
- <http://www.bbc.co.uk/education> - Navigate to GCSE, Science and your chosen subject e.g. Biology and use revision tools and tests.
- Core and Additional Science revision guide can be purchased from Student Finance for £4.00
- For Triple Science students, physics, biology and chemistry revision guides can be purchased from Student Finance for £4.00 each.



Golden Tips:

- Always read the question twice to check you understand what the question is asking.
- Never leave a multiple choice question blank.
- Write down the key words for the six mark question before starting to write your full answer.
- Always show your working out for any calculation question to help the examiner award you the most marks.

Helpful advice:

- Check you know the difference between a word and chemical equation.
- Uses past papers and time yourself to gain valuable exam technique experience.
- Check you understand how to use the equations on the formula page of your Physics exams.
- Check you understand the information on elements provided in the periodic table for your Chemistry exams.

