

Science



Mrs R Rayment



Mrs L Spencer



Mr L Pacey



Ms J Alexandre



Mr S Tilmouth



Mr P Massey

Two Routes: Separate Sciences and Trilogy

Three GCSEs – separate sciences

GCSE
BIOLOGY

8461

GCSE
CHEMISTRY

8462

GCSE
PHYSICS

8463

- Three separate grades are awarded.

Two GCSEs – double science

GCSE
COMBINED
SCIENCE:
TRILOGY

8464

Specification

For teaching from September 2016 onwards
For GCSE exams in 2018 onwards

- Combined GCSE is a double award, you will be awarded two grades.

A grading scale
with 17
possibilities will
be used.

9-9
9-8
8-8
8-7
7-7
7-6
6-6
6-5
5-5
5-4
4-4
4-3
3-3
3-2
2-2
2-1
1-1

Topics

Biology

Paper 1

1. Cells
2. Organisation
3. Infection and response
4. Bioenergetics

Paper 2

1. Homeostasis
2. Inheritance and evolution
3. Ecology

Chemistry

Paper 1

1. Atomic structure and the periodic table
2. Bonding and properties
3. Quantitative chemistry
4. Energy change

Paper 2

1. Rates of reactions
2. Organic chemistry
3. Chemical analysis
4. Chemistry of the atmosphere
5. Using resources

Physics

Paper 1

1. Energy
2. Electricity
3. Particle model of matter
4. Atomic structure

Paper 2

1. Forces
2. Waves
3. Magnetism and electromagnetism

Questions are based around 3 areas:

AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. (40%)

AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. (40%)

AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. (20%)

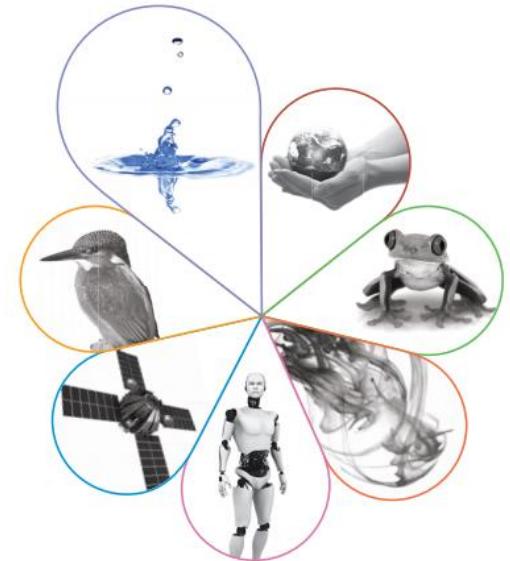


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Version 1.0 22 April 2016



Assessment of practical work

- Required practical's for each subject
- Assessed via questions in the exam
- These could be up to 6 marks
- Skills could also be assessed with questions about non-required practical's
- Maths skills – about 40% of marks on Physics paper

Assessment – exams at end of year 11

	Trilogy	Separate Sciences
Number of papers per qualification	6	3 x 2
Questions	Multiple choice, structured, closed short answer, and open response	
Length of papers	1 hour and 15 mins	1 hour and 45 mins
Marks per paper	70	100

What can you do to help:

- Be positive
- Offer support with homework
- Visit science museums
- Watch documentaries
- Buy revision guides and workbooks
- Encourage your students to attend revision sessions wherever possible

