



MAIDEN ERLEGH

SCHOOL IN READING

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Dear Parent/Guardian,

Year 9 assessment week: setting for combined and separate (Triple) sciences

The science department will conduct assessments from 12 -19 May 2025. All students will sit 3 separate papers in science: Biology, Chemistry, and Physics.

The results of these tests will play a key role in determining students' classes in Year 10 and whether students will be offered **separate sciences** (Triple science) or **combined science** (Double science).

To aid in revision, students will be given access to support materials on google classroom including a checklist (PLC), other useful resources, as well as access to Seneca.

The first test will be a **BIOLOGY EXAM**, second, **CHEMISTRY** and third, **PHYSICS** and the tests will cover the following content:

Biology

1. Cell Structure
2. Cell Transport
3. Cell division
4. Animal Organisation

Chemistry

1. Atomic structure
2. The Periodic table
3. Structure & bonding

Physics

1. Energy Resources
2. Energy stores & efficiency
3. Energy transfers by heating

We are sure students will benefit from your support in this endeavour, so we have also included some useful information about the science course below.

Yours sincerely,

Ms. Murphy
Curriculum Support- KS3

Dr. Diriyai
Curriculum Lead – Science



Exam board: AQA

Total number of exams: 6 (2 per subject)

Exam length: Triple: 1hr 45 minutes; Combined: 1 hr 15 minutes

Question style: multiple choice, structured, closed short answer and open response

Summary of subject content and required practicals (RP)

(Triple only content is in bold)

Subject	Paper 1 content	Paper 2 content
Biology topics	Cell Biology	Homeostasis & response
	Organisation	Inheritance, variation & evolution
	Infection & response	Ecology
	Bioenergetics	
Biology RPs		
Biology RPs	Using a light microscope	Investigating human reaction times
	Effect of antiseptics or antibiotics on bacterial growth	Effect of light or gravity on growth of germinated seedlings
	Investigating osmosis	Sampling techniques
	Food tests	Effect of temperature on the rate of decay of milk
	Effect of pH on the rate of reaction of amylase enzyme	
	Effect of light intensity on the rate of photosynthesis	
Chemistry topics		
Chemistry topics	Atomic structure & the periodic table	Rate & extent of chemical change
	Bonding, structure & the properties of matter	Organic chemistry
	Quantitative chemistry	Chemical analysis
	Chemical changes	Chemistry of the atmosphere
	Energy changes	Using resources
Chemistry RPs		
Chemistry RPs	Making a soluble salt from an insoluble base	Effect of concentration on the rate of a reaction
	Investigating reacting volumes using titration	Identifying unknown compounds
	Electrolysis of an aqueous solution	Use of paper chromatography
	Investigating temperature changes	Analysis & purification of water samples



Physics topics	Energy	Forces
	Electricity	Waves
	Particle model of matter	Magnetism & electromagnetism
	Atomic structure	
Physics RPs	Investigating specific heat capacity	Investigating the relationship between force & extension of a spring
	Investigating resistance	Investigating the relationship between force & acceleration
	<i>Investigating thermal insulators</i>	Investigating plane waves in a ripple tank & waves in a solid
	Investigating electrical components	<i>Investigating reflection & refraction of light</i>
	Calculating densities	Investigating infrared radiation

Specification in detail links

- [Biology Specification](#)
- [Chemistry Specification](#)
- [Physics Specification](#)
- [Combined Science Specification](#)

Useful study links

- <https://www.bbc.co.uk/bitesize/examspecs/z8r997h>
- <https://www.freesciencelessons.co.uk/videos/>
- <https://cognitoeu.org/home>
- <https://senecalearning.com/en-GB/>
- https://www.kerboodle.com/users/login?user_return_to=%2Fdl%2Fm%2F319%2F58. This is a digital copy of the textbooks we use in school. Students have all been signed up on it. Students who have forgotten their log in details should speak to their science teacher to reset their passwords. The school's institution code is vc6.

Required practicals:

- [Biology](#)
- [Chemistry](#)
- [Physics](#)

