



10 January 2023

Dear Parent/Guardian

Year 10 GCSE Science – Revision Information

Firstly, we would like to thank you for the support you have given the students this year in science.

Revision Information

We would like to take this opportunity to outline some of the support and resources that are available to help with preparation for the PPE examinations. These PPEs will begin on Friday 3 February 2023.

Every week on Tuesday after school in P1 there is “Science Hub” where we encourage students to come with a friend to study something specific that they wish to improve. Staff are on hand to offer support to the students with ideas or questions they are finding challenging.

Revision information including the personalised learning checklists (PLCs) for PPE 1 for biology, chemistry and physics and a link to the ‘GCSE science google drive’ are available on The Year 10 Pastoral google classroom **n7haiqk**. Please go to ‘classwork’ and then ‘Y10 Science PPE information 2022-23’.

Here are the topics for PPE1 in February, please note all students will sit three papers, one in biology, one in chemistry and one in physics. **The combined science papers will be 1h 15 minutes each and the single science papers will be 1h 45 minutes each.** The revision topics are the same for both combined and single sciences.

	Biology Topics:	Chemistry Topics:	Physics Topics:
The topics covered as you have been taught in school	Cell structure	Organic Chemistry	Forces
	Cell Transport	Using Resources	Simple Electrical Circuits
	Cell Division	Chemistry of the Atmosphere	Energy Resources
	Animal Organisation	Rates	Electrical Safety
	Plant Organisation	Atomic Structure	Mechanics
	Infectious Disease	Periodic Table	Gases and changes of state
	Enzymes		

	Photosynthesis	Ionic bonding and structures	Atoms and radiation
	Respiration	Covalent bonding	Materials
	Inheritance	Simple and giant structures	Wave Properties
The topics in the Combined Trilogy Kerboodle textbook (please note these may be numbered differently for single sciences)	B1 Cell structure and transport B2 Cell division B3 Organisation and the digestive system B4 Organising animals and plants B5 Communicable diseases B6 Preventing and treating diseases B7 Non-communicable diseases B8 Photosynthesis B9 Respiration B12.1 – 12.3 Reproduction	C1 Atomic structure C2 The Periodic Table C3.1 to C3.7 only Structure and bonding C8 Rates of reaction C9 Crude oil and fuels C11 The earth's atmosphere C12 The earth's resources	P3 Energy Resources P4.1, P4.2 Electric Circuits P4.3 Thermistor and LDR only P5 Electricity at Home P6 Molecules and Matter P7 Radioactivity P8.1, P8.2, P8.3 Forces in Balance P9 Mechanics P10.5 Forces and Elasticity P11 Wave Properties

We recommend that students revise in an active manner. They should avoid copying information from notes and textbooks and instead revise in a way where they are having to think, recall and apply their knowledge. Making resources, mind maps or explaining concepts to others are examples of active revision, here is a list of the revision resources available:

General Revision Resources for all sciences:

The Maiden Erlegh Science Website- for information, advice and PLCs	https://sites.google.com/maidenerleghschools.co.uk/maidenerleghtrust/home
Kerboodle- for an electronic copy of the textbooks which include knowledge based questions and practice examination style questions at the end of each chapter (look out for the summary and practice questions)	www.kerboodle.com
Focus e learning- for interactive revision of the required practical	https://www.focuselearning.co.uk/u/2174/ulqgjqagCrvurdFchAaewvhkDigFfyiCmu
GCSE Pod- for revision resources including videos	https://www.gcsepod.com
Seneca Learning- for revision resources including quizzes	https://senecalearning.com/en-GB/
CGP revision resources- general GCSE AQA science resources including revision guides	https://www.cgpbooks.co.uk/secondary-books/gcse/science?sort=best_selling&quantity=36&page=1&view=grid&currentFilter=ExamBoard_140&filter_exam%20board=ExamBoard_140
GCSE bitesize revision - revision information, animations, videos and quizzes	https://www.bbc.co.uk/bitesize/subjects/zrkw2hv
GCSE AQA science - for the specification, practice papers and mark schemes	https://www.aqa.org.uk/subjects/science

Resources: specific to AQA Combined Science - trilogy:

Revision guide recommendation for CGP AQA Combined Science Trilogy HIGHER	https://www.cgpbooks.co.uk/secondary-books/gcse/science/combined-science/sahr46-new-gcse-combined-science-aqa-revision-guid
Revision guide recommendation for CGP AQA Combined Science Trilogy FOUNDATION	https://www.cgpbooks.co.uk/secondary-books/gcse/science/combined-science/safr46-new-gcse-combined-science-aqa-revision-guid

AQA Website for combined science trilogy- for the specification, practice papers and mark schemes	https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources?f.Sub-category%7CF=Sample+papers+and+mark+schemes
GCSE Bitesize for combined science trilogy-	https://www.bbc.co.uk/bitesize/examspecs/z8r997h

Resources: specific to AQA Single (triple) Science:

Revision guide recommendation for CGP AQA Biology, Chemistry and Physics HIGHER	https://www.cgpbooks.co.uk/secondary-books/gcse/science/biology/bar46-new-gcse-biology-aqa-revision-guide https://www.cgpbooks.co.uk/secondary-books/gcse/science/chemistry/car46-new-gcse-chemistry-aqa-revision-guide-higher https://www.cgpbooks.co.uk/secondary-books/gcse/science/physics/par48-new-gcse-physics-aqa-revision-guide
AQA Website for Biology, Chemistry & Physics - for the specification, practice papers and mark schemes	https://www.aqa.org.uk/find-past-papers-and-mark-schemes
GCSE Bitesize for Biology, Chemistry and Physics-	https://www.bbc.co.uk/bitesize/examspecs/zpgcbk7 https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb https://www.bbc.co.uk/bitesize/examspecs/zsc9rdm

Thank you for your support in the preparation of your child for their Science examinations. Should you have any queries relating to this letter, please contact us via mesoffice@maidenerleghtrust.org

Yours sincerely



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GCSE Combined Science Leaders