



5 December 2023

Dear Parent/Guardian

### Year 10 Science PPE Information 2023-2024

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 **Monday 5 February 2024**.

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 PPE1 and a link to the 'GCSE science google drive' are available on Miss Avery's Year 10 Pastoral google classroom **56ujxd2**. Please go to 'classwork' and then 'Y10 Science PPE information 2023-24'.

Here are the topics for PPE in February, please note all students will sit 3 papers, 1 in biology, 1 in chemistry and 1 in physics. The revision topics are the same for both combined and single sciences.

	<b>Biology Topics:</b>	<b>Chemistry Topics:</b>	<b>Physics Topics:</b>
<b>The topics covered as you have been taught in school</b>	Cell structure Cell Transport Cell Division Animal Organisation Plant Organisation Infectious Disease Enzymes Photosynthesis Respiration Inheritance	Organic Chemistry Using Resources Chemistry of the Atmosphere Rates Atomic Structure Periodic Table Ionic bonding and structures Covalent bonding Simple and giant structures Bonding in metals and giant metallic structures	Forces Simple Electrical Circuits Energy Resources Electrical Safety Atoms and Materials Gases and changes of state Atoms and radiation Wave Properties

<b>The topics in the Combined Trilogy Kerboodle textbook (please note these may be numbered differently for single sciences)</b>	B1 Cell structure and transport	C1 Atomic structure	P3 Energy Resources
	B2 Cell division	C2 The Periodic Table	P4.1, P4.2 Electric Circuits
	B3 Organisation and the digestive system	C3.1 to C3.7, 3.9 and 3.10 Structure and bonding	P4.3 Thermistor and LDR only
	B4 Organising animals and plants	C8 Rates of reaction	P5 Electricity at Home
	B5 Communicable diseases	C9 Crude oil and fuels	P6.1, P6.2, 6.3, Molecules and Matter
	B6 Preventing and treating diseases	C11 The earth's atmosphere	P7 Radioactivity
	B7 Non-communicable diseases	C12 The earth's resources	P8.1, P8.2, P8.3 Forces in Balance
	B8 Photosynthesis		P10.5 Forces and Elasticity
	B9 Respiration		P11 Wave Properties
	B12.1 – 12.3 Reproduction		

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:**

<b>The Maiden Erleigh Science Website-</b> for information, advice and PLCs	<a href="https://sites.google.com/maidenerleghschools.co.uk/maidenerleghtrust/home">https://sites.google.com/maidenerleghschools.co.uk/maidenerleghtrust/home</a>
<b>Kerboodle-</b> 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)	<a href="http://www.kerboodle.com">www.kerboodle.com</a> .
<b>Focus e learning-</b> for interactive revision of the required practical	<a href="https://www.focuselearning.co.uk/u/2174/ulgg_jagCrvurdFchAaewvhkDigFfyiCmu">https://www.focuselearning.co.uk/u/2174/ulgg_jagCrvurdFchAaewvhkDigFfyiCmu</a>
<b>Seneca Learning-</b> for revision resources including quizzes	<a href="https://senecalearning.com/en-GB/">https://senecalearning.com/en-GB/</a>

<b>CGP revision resources-</b> general GCSE AQA science resources including revision guides	<a href="https://www.cgpbooks.co.uk/secondary-books/gcse/science?sort=best_selling&amp;quantity=36&amp;page=1&amp;view=grid&amp;currentFilter=ExamBoard_140&amp;filter_exam%20board=ExamBoard_140">https://www.cgpbooks.co.uk/secondary-books/gcse/science?sort=best_selling&amp;quantity=36&amp;page=1&amp;view=grid&amp;currentFilter=ExamBoard_140&amp;filter_exam%20board=ExamBoard_140</a>
<b>GCSE bitesize revision</b> - revision information, animations, videos and quizzes	<a href="https://www.bbc.co.uk/bitesize/subjects/zrkw2hv">https://www.bbc.co.uk/bitesize/subjects/zrkw2hv</a>
<b>GCSE AQA science</b> - for the specification, practice papers and mark schemes	<a href="https://www.aqa.org.uk/subjects/science">https://www.aqa.org.uk/subjects/science</a>
<b>Cognito videos-</b> concise revision videos	<a href="https://www.youtube.com/channel/UCaGEe4KXZrjou9kQx6ezG2w">https://www.youtube.com/channel/UCaGEe4KXZrjou9kQx6ezG2w</a>
<b>GCSE free science lessons videos-</b> concise revision videos	<a href="https://www.youtube.com/@Freesciencelessons">https://www.youtube.com/@Freesciencelessons</a>

### **Resources: specific to AQA Combined Science - trilogy:**

<b>GCSE Science Google Classroom-</b> for PLCs, Kerboodle textbook summary and practice answers, practice papers and mark schemes	<a href="https://drive.google.com/drive/folders/1IqD0ZC3YQ2PR0N6Bd23hYyJ8a42owkTx?usp=sharing">https://drive.google.com/drive/folders/1IqD0ZC3YQ2PR0N6Bd23hYyJ8a42owkTx?usp=sharing</a>
<b>Revision guide recommendation</b> for CGP AQA Combined Science Trilogy <b>HIGHER</b>	<a href="https://www.cgpbooks.co.uk/secondary-books/gcse/science/combined-science/sahr46-new-gcse-combined-science-aqa-revision-guid">https://www.cgpbooks.co.uk/secondary-books/gcse/science/combined-science/sahr46-new-gcse-combined-science-aqa-revision-guid</a>
<b>Revision guide recommendation</b> for CGP AQA Combined Science Trilogy <b>FOUNDATION</b>	<a href="https://www.cgpbooks.co.uk/secondary-books/gcse/science/combined-science/safr46-new-gcse-combined-science-aqa-revision-guid">https://www.cgpbooks.co.uk/secondary-books/gcse/science/combined-science/safr46-new-gcse-combined-science-aqa-revision-guid</a>
<b>AQA Website for combined science trilogy-</b> for the specification, practice papers and mark schemes	<a href="https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources?f.Sub-category%7CF=Sample+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</a>
<b>GCSE Bitesize for combined science trilogy-</b>	<a href="https://www.bbc.co.uk/bitesize/examspecs/z8r997h">https://www.bbc.co.uk/bitesize/examspecs/z8r997h</a>

**Resources: specific to AQA Single (triple) Science:**

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

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](mailto:mesoffice@maidenerleghtrust.org)

Yours sincerely



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GCSE Combined Science Leaders