

Year 11 Science Revision

All year 11s will have mock GCSE exams in the next few weeks.

You will sit **3 full length papers** (1 x Biology, 1 x Chemistry, 1 x Physics).

To support revision, here are a few websites/apps that you may wish to try:



Physics & Maths Tutor (physicsandmathstutor.com)

- Navigate to the "**GCSE Revision**" tabs and select **AQA GCSE**. The site has notes and resources. The most useful are the exam question packs for each exam topic. The Q packs are levelled for foundation (level 1 and 2 Qs) or higher tier (level 2 & 3 Qs). Practice and test yourself, then download the mark schemes and check how to improve your answers.

Cognito science

<https://cognitoedu.org/home> - useful videos and questions quizzes



Seneca Learning

<https://senecalearning.com/en-GB/> - free learning app with Qs and revision resources.

Additional resources are linked though this page:

<https://consilium.frogfms.net/sciencerevisionpage>



TOP TIPS FOR PUPILS

- 1) Use your specification sheets to RAG your understanding and then prioritise revision on your weaker areas.
- 2) Space out your revision (little and often rather than cramming! See countdown)
 - a. Watch revision videos
 - b. Make flashcards/mind maps (make your revision active!)
- 3) **Test** yourself often (quizzes, questions, flash cards) – Testing is probably the most **powerful form of revision** so you can see what you know and what you still need to work on. Don't forget to practice maths and 6-mark questions too!

Exampro Retrieval Revision Quizzes

Use the exampro links for past paper revision quizzes. They are suitable for all learners and will automatically marked and show the mark schemes once you have finished. Pupils can also see the markschemes on the longer questions to check their marks. Pupils can retake the quizzes whenever they like and see if their scores improve.

Please remember to test yourselves in lots of different ways. The quizzes are just one example. Good luck!

Required practical quizzes for paper 1s



Biology paper 1

<https://q.exampro.net/LOSIYEG>









Chemistry paper 1

<https://q.exampro.net/IODYGIH>









Physics paper 1

<https://q.exampro.net/KOEAVUA>

w/c	Biology	Chemistry	Physics
6 th October (4 weeks until mocks)	<p>Cells (paper 1) Eukaryotic, Prokaryotic, organelles and their function, *size and scale*, magnification equation, how to use a microscope, specialised cells, stem cells and ethics of using these in therapy. Osmosis (+osmosis practical), active transport and diffusion https://www.youtube.com/watch?v=sdpmVQooYS4&feature=youtu.be</p>	<p>Atomic structure and Periodic table (paper 1) Properties of elements, compounds, mixtures, separation techniques, history of the periodic table, atomic structure, electron configuration, history of the atom https://www.youtube.com/watch?v=lvE0vkTdN-I</p>	<p>Energy (paper 1)- energy types, sources and energy demands. Look at calculations needed, SHC practicals, conduction, convection and radiation. https://www.youtube.com/watch?v=VZKqXMdCmLo</p>
	<p> Quiz: Cells, cell transport & cell division https://q.exampro.net/JOHOWUZ</p>	<p> Quiz: Atoms and periodic table https://q.exampro.net/FOROTOY</p>	<p>Quiz: Energy  https://q.exampro.net/IEYIXOP</p>
13 th October (3 weeks until mocks)	<p>Organisation (paper 1) Cells-tissues-organs, digestive system, enzymes, digestive enzymes (location, product, function), *food tests*, the heart and lungs, exchange surfaces, transport in plants (xylem and phloem) https://www.youtube.com/watch?v=DJ0lZGkDx6A&feature=youtu.be</p>	<p>Bonding types & quantitative chemistry (paper 1) Electron configuration, metallic, covalent and ionic bonding, properties of each bonding type, giant structures and their properties. Relative atomic and molecular mass. Moles and Avogadro's number. Reacting masses https://www.youtube.com/watch?v=YpEQNWxKBc</p>	<p>Electricity (paper 1)- circuit diagrams and rules, rules of series and parallel, components and component graphs and uses, power, plugs, AC/DC, national grid https://www.youtube.com/watch?v=F6QqhykFxAY</p>
	<p>Quizzes: Human organ systems https://q.exampro.net/DOUOHIF </p>	<p>Plant organs & transport https://q.exampro.net/JOFOYUQ </p>	<p> Quiz: Bonding https://q.exampro.net/DICUJYS</p>

20 th October (2 weeks until mocks)	<p>Bioenergetics (paper 1) Photosynthesis, limiting factors, required practicals, equation, uses of glucose, aerobic and anaerobic respiration, effects of exercise https://www.youtube.com/watch?v=ub07L-NTJ3M</p>	<p>Chemical and energy changes (paper 1) Reactivity series, displacement, pH scales, electrolysis, testing for gases. Endo and exothermic reactions reaction profiles, bond enthalpies. https://www.youtube.com/watch?v=OltU8F4wiHM https://www.youtube.com/watch?v=26vkWj-Phy0</p>		<p>Particles- density, changes of state, particle theory, irregular density experiment, pressure, radiation types, half-lives, radiation equations https://www.youtube.com/watch?v=cZz9oGgJOL0&t=2s</p>	
	<p>Quiz:</p>  <p>Photosynthesis and respiration</p> <p>https://q.exampro.net/GOHOMEP</p>	<p>Quizzes: Chemical changes https://q.exampro.net/WYRARED#</p> 	<p>Energy changes - https://q.exampro.net/SYSUJOJ</p> 	<p>Particle model of matter - https://q.exampro.net/OYQOMUS</p> 	<p>Atomic structure - https://q.exampro.net/NUUINEY</p> 
27 th October (1 week until mocks - HALF TERM)	<p>Diseases (paper 1) Communicable and non communicable diseases, our defence system, human diseases and treatment, developing drugs (timeline), risk factors disease, cancer, smoking and drug misuse https://www.youtube.com/watch?v=m7pxdTJ9NPI&feature=youtu.be</p>	<p>Chemistry Required Practicals</p> <ol style="list-style-type: none"> 1) Making a soluble salt 2) Neutralisation (triple only) 3) Electrolysis 4) Investigating temperature changes <p>https://www.youtube.com/watch?v=wP7xt_6cFg</p>		<p>Physics Required Practicals</p> <ol style="list-style-type: none"> 1) Specific Heat Capacity, 2) Thermal Insulation (Triple only) 3) Resistance of a wire, 4) IV Characteristics, 5) Density <p>https://www.youtube.com/watch?v=g57BmFXAyM8</p>	
	 <p>Quiz: Infection and disease -</p> <p>https://q.exampro.net/UOUYMUC</p>	 <p>Quiz: Chemistry paper 1 practicals https://q.exampro.net/IODYGIH</p>	 <p>Quiz: Physics paper 1 practicals https://q.exampro.net/KOEAVUA</p>		
	<p>Paper 1 Required practicals https://www.youtube.com/watch?v=i9pfkLECKUw</p> <p>Quick fire questions paper 1</p>	<p>Chemistry paper 1 (whole) https://cognitoedu.org/courseoverview/c2-gcse-aqa-h-c/lessons</p>		<p>Paper 1 whole https://www.bbc.co.uk/bitesize/examspecs/zsc9rdm</p>	

<p>27th October (1 week until mocks - HALF TERM)</p>	<p>https://www.youtube.com/watch?v=xrQOIMQsYU</p> <p>Triple science (additional topics to revise)</p> <p>– plant disease, monoclonal antibodies, req prac culturing microbes</p>  <p>SCAN ME</p>	<p>Triple science (additional topics to revise)</p> <p>– Transition metals, nanoparticles, Atom economy, percentage yield, Volumes of Gases, Req prac Titrations - including calculations, simple cells, rechargeable / non- rechargeable batteries. Hydrogen fuel cells and their half equations.</p>  <p>SCAN ME</p>	<p>Triple science (additional topics to revise)</p> <p>– Static electricity, electric fields, Boyle's Law – gas pressure and volume, nuclear fission and fusion, background radiation</p>  <p>SCAN ME</p>
<p>3rd November (Biology mock Wed 5th November)</p>	<p>Biology recap – night before the mock. https://www.youtube.com/watch?v=aNBmjikcagl</p> <p>Quick fire questions</p>  <p>SCAN ME</p> <p>https://www.youtube.com/watch?v=WfQjzmaGGS4</p>	<p>Chemistry recap - https://www.youtube.com/watch?v=vAzs9XLJ1cQ</p> <p>Quick fire Questions</p>  <p>SCAN ME</p> <p>https://www.youtube.com/watch?v=92m3x21YKQ</p>	<p>Physics recap - https://www.youtube.com/watch?v=FpZYuwHhQOA</p>
<p>10th Nov (Chemistry mock 10th November Physics mock 11th November)</p>			<p>Paper 1 quick fire questions</p>  <p>SCAN ME</p> <p>https://www.youtube.com/watch?v=u5V3TBfqm0</p>

"The future depends on what you do today" — Mahatma Gandhi.

After the mocks, keep revising! Little and often.

"Success is the sum of small efforts, repeated day in and day out" — Robert Collier.