

YEAR 12 EXAM PAPERS AND REVISION TOPICS SUMMER 2024

The Year 12 exams will run between 3.6.24 and 14.6.24. These exams will give a good indication of students' current working grades in each subject and will form part of the data used to determine UCAS grades in the Autumn Term of Year 13. Following these exams, students will be given valuable feedback in lessons and areas for development will be highlighted.

Parents of students who are at risk of failing or who are significantly underachieving following these exams, will be invited to a remote 'Emergency Parents' Evening' in July. This evening will allow teachers to give advice and guidance as well as setting any relevant summer work to support students in catching up before the start of Y13.

Please see below for details of papers in each subject, with topics to be revised. This information will also be shared with students via Google Classroom.

Year 12 can be a stressful time for students. If you are experiencing stress please reach out to your tutor or the Sixth Form Team. You are not in this alone; we are all here to help.

Subject	Paper name and length	Topics to revise	Useful links/ advice
Biology	2 x Papers. 1h30 each	<p>Paper 1: Biological molecules, Exchange surfaces, Enzymes, DNA and Protein synthesis, Genetics, Plant Biology</p> <p>Paper 2: Cytology, CVD, Voice of the genome 1 and 2, Biodiversity</p>	<p>Use textbook and specification</p> <p>Links to useful videos on Biology Handbook classroom</p> <p>Seneca learning and www.spolem.co.uk</p> <p>Save my exams website: https://www.savemyexams.co.uk/a-level/biology/edexcel-a-snab/15/revision-notes/</p> <p>Students should review all other cumulative exams sat and the PLCs completed.</p>

Business Studies	Paper 2 - Managing Business Activities 1hr 30 mins	Paper 2 - Theme 2 topics	Year 12 Business handbook Google Classroom - teacher resources You tube clips Seneca Assignments for Theme 2
Chemistry	2 x Papers. 1h30 each	<p>Paper 1: Advanced Inorganic and Physical Chemistry - <i>Topic 1, Topic 2, Topic 3, Topic 4, Topic 5. Topic 8, Topic 10</i></p> <ul style="list-style-type: none"> ● <i>Atomic structure and the Periodic Table 1</i> ● <i>Chemical bonding and structure 2</i> ● <i>Redox reactions 3</i> ● <i>Inorganic chemistry and the Periodic Table 4</i> ● <i>Formulae equations and amount of substance 5</i> ● <i>Chemical Energetics 8</i> ● <i>Chemical Equilibrium 10</i> <p>Paper 2: Advanced Organic and Physical Chemistry - <i>Topic 1, Topic 2, Topic 3, Topic 5, Topic 6, Topic 7, Topic 9</i></p> <ul style="list-style-type: none"> ● <i>Atomic structure and the Periodic Table 1</i> ● <i>Chemical bonding and structure 2</i> ● <i>Redox reactions 3</i> ● <i>Formulae equations and amount of substance 5</i> ● <i>Organic Chemistry 6</i> ● <i>Modern Analytical Techniques 7</i> ● <i>Reaction Kinetics 9</i> 	Google classroom exam questions Seneca Physics and Maths Tutor YouTube: Allery Chemistry/ Free Science Lessons A-Level Textbook/ orange workbook
Computer Science	Paper 1: 2 hours	Unit 1- Components of computers Unit 2- Systems Software	Make use of specification: https://www.ocr.org.uk/Images/170844-specification-acc

	Paper 2: 2 hours	Unit 3 - Software development Unit 4 - Exchanging data Unit 5 - Networks and Web technologies Unit 6 - Data types Unit 8 - Boolean algebra Unit 9 - Ethical, legal, moral and environmental issues Unit 10 - Computational Thinking Unit 11 - Programming techniques	redited-a-level-gce-computer-science-h446.pdf Practice papers: https://www.ocr.org.uk/qualifications/as-and-a-level/computer-science-h046-h446-from-2015/assessment/ Revision using resources on Google classroom Use RAG sheets during revision
Economics	One customised paper (80 marks) (2 hours)	This paper will be a combination of both micro and macro. The multiple choice questions will be macro only. You will have longer questions relating to the following topics: The Economic Cycle The Wealth Effect Taxes and Subsidies (micro) Market failure (micro) Monetary policy Fiscal policy	PLCs Class notes/workbooks and assessments Mid Term Plans on Google Classroom Econplusdal, Tutor2u & Economicshelp videos
English Literature	Paper One: 1 hour 30 minutes Paper Two: two hours	‘Hamlet’ - tasks a) and b) American Literature: Unseen passage and ‘The Great Gatsby’	Use the Year 12 Revision section of the ‘Hamlet’ Google Classroom. ‘ The Great Gatsby ’ and American Literature: Critical Appreciation Google Classrooms are full of useful tasks and links that will help you to develop your skills and knowledge. Identify (and complete) the tasks that will have the most impact on you. Use the lectures on Massolit to help you develop

			insight into the texts and develop a wide range of critical viewpoints.
Food Science & Nutrition (Level 3 Applied Certificate/ Diploma)	<u>TUESDAY 4TH JUNE</u> Unit 1 external exam. Meeting Nutritional Needs of Specific Groups 1 Paper - 1 hr 45 mins Unit one external exam set by WJEC	This is an externally set and externally assessed exam which equates to 50% of the Level 3 Certificate grade. The content/topics could be anything from the Unit 1 scheme of learning (Meeting the nutritional needs of specific groups).	Class note folders and the WJEC Level 3 Certificate in Food Science and Nutrition textbook.
Geography	X1 paper 1.5 hours (paper 1 and 2 topics combined)	Tectonics Processes Coastal Landscapes and change Globalisation Regenerating Places	Google Classroom. Edexcel Textbook Year 1 and AS. https://geographyrevisionalevel.weebly.com/
History	Paper 1 (Tudor): 1 hour 30 minutes Paper 2 (USA): 1 hour 30 minutes	Tudor: Henry VII & VIII, Edward VI USA: Truman, Eisenhower & Kennedy	Google classroom revision guides.
Maths	Paper 1 - 2hrs Paper 2 - 1hr 15min	Paper 1 - any AS pure content Paper 2 - any AS applied content See <u>AS specification</u> for more detailed information	Use Google classroom for lesson resources; you can use <u>TL Maths</u> for video resources Online Textbooks: Pearson book and the Kerboodle book Practice Papers given by teachers or on the following

			websites: Edexcel (any papers from 2021 back) Maths Genie Physics and Maths Tutor
Further Maths	Paper 1 and 2 same as maths Paper 3 - 2hrs Paper 4 - 2hrs	Paper 1 and 2 (see above for maths) Paper 3 - any A2 pure content Paper 4 - any Further Maths Pure content See A-level specification for more detailed information for topics for Paper 3 and See Further Maths Specification for more detailed information for Paper 4 topics	See above for maths resources to use
Media Studies	x1 paper - 1 hour 45 minutes	Component 1 Paper Section A - Tide & unseen print product comparison - 30 mark question. Section B - Film Industry (part 1 - industry) Woman's Hour (part 2 - audience)	Use Google Classroom for all lesson resources. Mrs Fisher's Media Revision Channel https://www.youtube.com/channel/UCUKrxp4BcJrGLzmqAhCjASg Past Papers: https://www.educas.co.uk/qualifications/media-studies-a-s-a-level/#tab_pastpapers
Music	<u>Component 3:</u> <u>Appraising</u>	<ul style="list-style-type: none"> ● AoSD: Jazz (inc Cool Jazz) ● 20th Century Music Wider Listening ● Mendelssohn Mvt 1 and 2 ● Western Classical Tradition (Symphonies) 	The General A Level Music Google Classroom https://alevelmusic.com/ https://portal.focusonsound.com/expired/

<p>PE</p>	<p>Paper 1: Physiology 2 hours</p> <p>Paper 2: Psychology 1 hour</p> <p>Paper 3: Sociology - 1 hour</p>	<ul style="list-style-type: none"> ● Skeletal system ● Muscular system ● Cardiovascular system ● Respiratory system ● Diet, Nutrition and Energy Balance ● Ergogenic Aids ● Principles of Training and Periodisation ● Aerobic Training ● Classification of skills ● Types and methods of practice ● Transfer of skills ● Theories of learning (operant/Cognitive/Social) ● Attitudes ● Arousal ● Social Facilitation ● Group and Team dynamics ● All individual Differences ● Feedback Guidance ● Pre-Industrial Britain ● Post 1850 Britain ● 20th Century Britain ● 21st Century Britain ● Modern Olympic Games ● Hosting Global Sporting Events ● Ethics and Deviance in Sport 	
<p>Physics</p>	<p>2 x Papers. 1h30 each</p>	<p>Paper 1: Matter and radiation, quarks and leptons, quantum phenomena, electric current, direct current and circuits, alternating current, materials and motion in a circle.</p>	<p>A level textbook Physics and maths tutors website Youtube: Physics online https://www.youtube.com/c/PhysicsOnline</p>

		<p>Paper 2: Forces in equilibrium, on the move, Newton's laws of motion, Force and momentum, work, energy and power and waves.</p>	
Politics	Uk Politics: 2 hours	The entire Uk politics SOW.	A level textbook Pre-chewed politics resources
Product Design	<p>2 x papers</p> <p>Paper 1 - 1h45 Paper 2 - 1h30</p>	<p>Paper 1: Technical Principles</p> <ul style="list-style-type: none"> ● Polymers and their uses especially in 3D printing [ABS, HIPS etc...] ● Maths topics as per your textbook - Trig, %, Ratios, Pythagoras, Areas, Volumes Mass and Probability etc. ● Understand industrial processes used for polymers ● Know about FEA ● Timbers and characteristics ● Critical Assessments ● Metal finishes ● Paper and card finishes ● Protecting designs & intellectual property ● Modern and industrial scales of practice - scales of production. <p>Paper 2: Design & Make Principles</p> <ul style="list-style-type: none"> ● Know Rotational, Injection and powder coating processes ● Metal properties ● Know how to write a Critical Path Network [CPN] ● Understand Jigs and templates 	Resources - Textbook, Technologystudent.com, bbc bitesize

		<ul style="list-style-type: none"> ● CNC ● Wasting processes ● Sustainability and environmental impact concerning paper and boards, Polymers and Metals. ● Measuring devices and their uses ● QC & QA ● Ergonomics & Anthropometrics ● Designers and Design movements - Modernist Design 	
Psychology	Paper 1 - 2 hours	All topics: Social influence, memory, attachment, psychopathology.	Google classroom (slides, revision notes and past papers), textbook PLC link. <u>PLC</u>