

Revision Topics by Subject for Year 11 Trial Exams November-December 2021

Subject	Revision Topics
Biology	Cell Biology, Organisation, Infection and response and bioenergetics
Business	Topic 1 - Business Activity, Topic 4 - Operations, and Topic 5 - Finance
Chemistry	Atomic structure and the periodic table, bonding, structure and the properties of matter, quantitative chemistry, chemical changes and energy changes
Child Development	<p><u>Child Development RO18 Trial Exam Revision Topics</u></p> <p><u>LO1</u> Preconceptual health Contraception</p> <p><u>LO2</u> The stages of labour and delivery methods Specialist diagnostic testing Antenatal care and parenting classes</p> <p><u>LO3</u> Reflexes</p> <p><u>LO4</u> Diet related illnesses (with links to RO19 LO3)</p> <p><u>LO5</u> Know about child safety</p>
Computer Science	Students should revise the complete syllabus for the trial exams
Dance	The revision information has been added to Teams
Design and technology	<p>Section A</p> <p>Smart materials – Thermo chromic, electro-luminescence Mechanical Devices – motions, levers, speed and gear ratios (calculating savings, speed, gear ratios, bar charts) Electronic Devices – Feedback routes, inputs and outputs Materials and material finishes – plastics, metals, fabrics (denim), paper Design factors – CAD, legislation, design considerations, renewable energy</p> <p>Section B (choose one question to answer on either of these three materials)</p> <p>Wood: finishing, bending, and joining wood, man made boards, Philippe Starck Metal: finishes, alloys, technical drawing, non ferrous metals, James Dyson Plastic: HDPE, rubber finishes, natural vs synthetic plastics, Apple Maths: Area, calculating savings, speed, gear ratios, bar charts</p>

Drama	Content may include any of the topics as detailed in the GCSE Drama Revision guide in the KS4 Success page
Engineering	<p>Materials and material properties</p> <p>Machining</p> <p>Casting and moulding</p> <p>Percentages</p> <p>Surface finish</p> <p>Impact of modern technologies</p> <p>Heat treatments</p> <p>Pressure calculations</p> <p>Chains and sprockets/ pulleys and belts</p> <p>Engineering drawings</p> <p>Revision notes can be founds at: #files/subjects/design technology/engineering 8852/engineering year11 mock December 2021</p>
Economics	Topics 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7 and 3.8
English Language	AQA Language paper 1: Fiction paper/ creative writing
English Literature	An Inspector Calls and 19th Century (Dr Jekyll and Mr Hyde or A Christmas Carol)
Film Studies	<p>SECTION A: US Film Comparative Study</p> <p>Students will need to revise Rebel Without a Cause (Ray, 1955) and Ferris Bueller's Day Off (Hughes, 1986). First, you will answer one stepped question on Rebel Without a Cause and one stepped question on Ferris Bueller's Day Off. Each of these is worth 15 marks overall. Your final question in Component 1 Section A will ask you to compare an aspect of Rebel Without a Cause (Ray, 1955) and Ferris Bueller's Day Off (Hughes, 1986). This question is worth 20 marks. The areas you might be tested on are:</p> <ul style="list-style-type: none"> - Film Form (mise-en-scene; sound; cinematography; editing) - Context - Genre (Conventions; Iconography; Themes; Representation) - Narrative <p>The questions will cover one or more of these areas</p> <p>SECTION B: Film History</p> <p>This section is worth 5 marks and will be based on key developments in film and film technology. <u>The timeline is included and explained in this clip: https://www.youtube.com/watch?v=g-WuZisCi20&feature=youtu.be. All of the answers are contained in this short video</u></p>
Food Preparation and Nutrition	Food waste, Diabetes, Macronutrients , Meat, Food safety, Cake making, Energy Balance, Dairy products, Fairtrade
French	Units 1 - 8

Geography	<p>Paper 1 and 2 - The paper will cover 3 topics from these papers. Landscapes of the UK, ecosystems of the planet and people of the planet. Case studies - UK rivers, stretch of the UK coastline, tropical rainforest, coral, reef, LIDC country and LIDC city (20 marks per section, 20 minutes per section)</p> <p>Paper 3 - This paper has two parts. Section A will be geographical skills (worth 50 marks) and fieldwork (worth 15 marks) - questions about field work have been removed but there will be questions related to unfamiliar contexts (section B) and these will equate to the 15 marks</p>
German	Units 1 - 8
History	<p>Paper 3: (Question focus: Interpreting historians opinions)</p> <p>The USA: Conflict at Home and Abroad, 1954-75</p> <p>Life for Black Americans in the early 1950s: segregation, Jim Crow laws, Plessy vs. Ferguson</p> <p>Establishment of NAACP and CORE</p> <p>Education: Brown vs. Topeka and Little Rock High School Montgomery Bus Boycott</p> <p>Civil Rights Act, 1957</p> <p>Significance of Martin Luther King's leadership; setting up of SCLC</p> <p>Opposition to civil rights: KKK, White Citizens Councils, Dixiecrats</p> <p>Murder of Emmett Till</p> <p>Greensboro sit-ins and Freedom Rides (KKK violence/Anniston bomb)James Meredith case</p> <p>Marches in Birmingham, Washington and Selma</p> <p>Freedom Summer and Mississippi murders</p> <p>Role of Kennedy and Johnson in the Civil Rights Act 1964</p> <p>Voting Rights Act, 1965Malcolm X: his influence and assassination</p> <p>Black Panthers</p> <p>Black power movement and Mexico Olympics</p> <p>Stanley Carmichael</p> <p>Riots of 1965-7 and Kerner Report</p> <p>Assassination of Martin Luther King</p>
Mathematics	All areas of the curriculum could be assessed
Philosophy and Ethics	<p>Paper 1 – The Study of Religions: Christian Beliefs and teaching, Christian practices and Buddhist beliefs and teaching. Paper 2 - Thematic studies: Religion and life, Religion, Crime and punishment and relationships and families. Please refer to the revision guide on the KS4 success page on the school website for more detail on each topic</p>
Physical Education	<p>Applied anatomy and physiology</p> <ul style="list-style-type: none"> · Movement analysis · Physical training · Use of data · Sports psychology

Physics	Forces, waves, magnetism and electromagnetism and space physics (physics only)
Psychology	<p>PSYCHOLOGICAL PROBLEMS</p> <p>Symptoms and Features of addiction and depression, How mental illness has changed over time, The influence of genes, The cognitive theory of depression, The learning theory of addiction, The use of CBT, The use of drug treatment, Key Studies: Caspi et al. (2003) and Young (2007), The Nature Nurture debate</p> <p>RESEARCH METHODS</p> <p>Variables (independent, dependent and extraneous), Controlling extraneous variables, Hypotheses (Experimental, alternative and null), Methods of sampling, Experimental designs (independent measures, repeated measures and matched pairs), Qualitative and Quantitative data, Ethics in psychological research, Research methods (lab experiments, field experiments, natural experiments, interview, questionnaire, observation, case study and correlation), Decimal and standard form, Measures of central tendency (mean, median, mode), Calculations (ratio, fractions, percentages, range, normal distribution), Represent data (graphs), Interpret data, Primary and secondary data</p>
Sociology	<p>CRIME AND DEVIANCE</p> <p>Social construction of concepts of crime and deviance – e.g. definition of crime and deviance, historical and cultural variations, social construction of crime and deviance</p> <p>Social control – e.g. informal and formal social control and unwritten rules, agencies of informal and formal social control, sanctions</p> <p>Patterns of criminal and deviant behaviour – e.g. social class, ethnicity, age, gender</p> <p>Sociological theories and explanations of deviance and criminal behaviour – e.g. structural, subcultural, interactionist, feminist, Marxists, ethnicity and crime</p> <p>Sources of data on crime – e.g. patterns and trends of criminal behaviour, official statistics, victim and self-report studies, usefulness of sources of data on crime</p> <p>APPLIED METHODS OF SOCIOLOGICAL ENQUIRY</p> <p>The process of research design – e.g. choosing a research area, establishing an aim and/or hypothesis, choosing a method, pilot study, sampling techniques, analysis of data, triangulation</p> <p>Interpreting data–e.g. how to interpret graphs, diagrams, charts/tables to spot patterns/trends</p>
Spanish	Units 1 - 8