

Year 13

Curriculum Overview Half Term 2

Dear Parent/Carer,

In the following booklet you should find an overview of what your child will be studying this half term in school. We've included key details on what they will be looking at in each subject, how they'll be assessed and what they might do to further develop their understanding. The aim is for this to make it easier for you to work with the school supporting your child with their work.

All lessons last for one hour. In Year 12, students spend 5 hours per week on each of their subjects. They also attend lessons in Preparation for Higher Education on a rotational basis.

The information for each subject is categorised as follows:

Topics / tasks: This is the overview of the topics Year 12 students will be covering this half term.

Content and skills: This explains what areas students will be looking at, and the skills they will be

developing during the half term.

Assessment: This explains how students will be assessed on their understanding of this topic.

Stretch and challenge: This gives suggestions of how students can explore this area in more detail if they wish.

Exam Boards

Please use the table if you wish to know which exam board the school uses for each qualification.

Subject	Awarding Body	Subject	Awarding Body	Subject	Awarding Body
Art	OCR	Ethics and Philosophy	OCR	Music	AQA
Biology	OCR	French	AQA	Physical Education	AQA
Business	Edexcel	Geography	AQA	Physics	OCR
Chemistry	OCR	German	AQA	Psychology	AQA
Computer Science	OCR	Government and Politics	AQA	Sociology	AQA
Economics	Edexcel	History	OCR	Spanish	AQA
English Language	AQA	Maths	OCR		
English Literature	AQA	Media Studies	Eduqas		

Art

Topics / tasks:	Students will be continuing their Personal Investigation projects with guidance by their class teachers in their 2 double lessons. In the single lesson, students will focus on the Related Study element of their A Level coursework.		
Content and skills:	This will depend on the nature of projects being created and the individual student's strengths and interests, with guidance by the class teacher.		
Assessment:	Their practical work will be reviewed and commented on regularly by their class teachers. Technical skills will be assessed in conjunction with the imaginative and creative element of their work, as a higher level of fluency in being able to articulate their ideas using visual language is to be expected at A Level. This will also be expected where written language is used.	The Assessment Objectives (OCR exam board) will be referred to throughout the process. As there will not be an Externally Set Task next year, Assessment will be 100% coursework which includes the Personal Investigation and Related Study. Regular verbal feedback by class teachers and a program of written self-assessment as part of creating the portfolio.	
Stretch and challenge:	Extending their work through a greater degree of sophistication including the creative content of their work and the exploration of techniques, materials and processes being used.	Students will be expected to gather independent research for their Related Study which will also inform their Personal Investigations. This could include further 'reading' around their chosen subject to provide a wider context and more in depth understanding of their ideas. A higher level of critical thinking will be evident in their annotation and extended analysis.	

Biology

Topics / tasks:	Module 5: Respiration, cellular control, excretion, hormones	
Content and skills:	 Glycolysis, Krebs cycle and oxidative phosphorylation Aerobic and anaerobic respiration Different respiratory substrates Mutations and control of gene expression Structure and function of liver and kidney Hormonal control of blood glucose and diabetes 	
Assessment:	Mock exam in November Assessment using continual past paper questions.	
Stretch and challenge:	Preparing for the British Biology Olympiad. (https://www.ukbiologycompetitions.org/british-biology-olympiad/syllabus/)	

Business

Topics / tasks:	The importance of consolidation of Year 12 (Themes 1 & 2) work – recommendation 1 hour per Year 12 Theme per week Theme 3: Business Strategy Theme 4: Global Business
Content and skills:	 3.3 Evidence based decision-making: time series analysis, decision trees and critical path analysis. 3.6 Causes and effects of change 4.1 Introduce Theme 4 (synoptic) approach 4.1 Growing economies. International trade and business growth Re-enforcement / reminder of: 1. The expected approach / standards. 2. Exam board requirements & assessment overview. 4+8+10+12+20 mark answer expectations 3. Content + use of context + structure / technique. A synoptic approach to exam technique.
Assessment:	Q & A in class. Making good use of plans to ATQ (answer the question) Past exam questions - exclusively time-constrained - building up in time covered. Full Paper 2 (Theme 2 (12) & Theme 3 (13) mock Much more synoptic assessments (4 themes into 3 exams). Theme 4 table
Stretch and challenge:	Taking a topic and leading our 'what's in the news' insight / class discussion into contemporary issues - relevant to previously studied areas of the course e.g. Network Rail use of CPA, HBR / Forbes articles. Issa brother's acquisition of Asda for 36.8 billion – "Big Four" Tech companies – collusion?

Chemistry

Topics / tasks:	MODULE 5: PHYSICAL CHEMISTRY AND TRANSITION ELEMENTS MODULE 6: ORGANIC CHEMISTRY AND ANALYSIS
Content and skills:	 Redox equations Electrochemical cells The electrochemical series Storage and fuel cells Benzene and aromatic compounds Electrophilic substitution Substituted benzene rings Acids and bases pH the acid dissociation constant Buffers pH curves and titrations Rates of reaction Reaction orders The rate constant The rate-determining step The Arrhenius equation
Assessment:	End of topic tests for each section, past paper questions. There will also be a mock exam on the content of the year 1 course plus equilibria, transition elements, enthalpy and entropy and redox titrations.
Stretch and challenge:	Students can prepare for the RSC Olympiad which happens in January: https://edu.rsc.org/resources/chemistry-olympiad-past-papers/1641.article

Computer Science

Topics / tasks:	Coursework completion (Development) Databases, Normalisation and SQL Abstract Data Types and Path-finding algorithms Assembly Instructions with LMC and Encryption
Content and skills:	Students will continue coding their projects whilst documenting the errors that occur along the way Students will understand the need for relational databases (as oppose to flat-file databases) and the uses of SQL when querying a database Students will apply Abstract Data Types to relevant scenarios and trace examples of path-finding algorithms Students will re-visit the terminology associated with Assembly programming and use Little Man Computer (LMC) to make programs
Assessment:	Y13 Mock /100 Assessment of Y13 materials so far (Algorithms / OOP and Abstract Data Types) /52 Coursework development review Y12 recap feedback assessment (based on last half term's results)
Stretch and challenge:	Study complex database services such as the Amazon RDS, and determine the need for multiple tables for larger problems https://aws.amazon.com/ Try to implement your own version of the A* algorithm through code https://en.wikipedia.org/wiki/A*_search_algorithm Study the IBM Quantum computer and investigate how code is written for a quantum machine https://www.ibm.com/quantum-computing/

Economics

Topics / tasks:	Government intervention, the impact of government intervention. Globalisation, specialisation and trade, pattern of trade, terms of trade and trading blocs and the WTO.	
Content and skills:	Use of basic and advanced economic terminology, mastering chains of reasoning, application of economic knowledge to different situations, quantitative and qualitative economic analysis and evaluation of case study material.	
Assessment:	Past Paper Questions. Mock examination A Level Paper 1 questions.	
Stretch and challenge:	Use of textbook. Online material - follow @econdj on Twitter, stay up to date with current affairs - Financial Times, guardian, BBC. Wider reading - see reading list.	

English Language

Topics / tasks:	Paper 1: Language, the individual and society Section B: Child Language Acquisition	Paper 2: Language Diversity and Change Section A: Language Change
Content and skills:	 Review the CLA speaking unit after the November mock examination. Set targets for development and look at exemplar essays. Develop an understanding of how children learn to read and write. This literacy focussed unit will include a study of orthographical, phonological, lexical, pragmatic and grammatical development regarding literacy acquisition. Evaluate different theories, views and approaches regarding how children learn to read and write. Practise writing essays by examining exemplars and producing their own paragraphs/essays. 	 Develop an understanding of how language has changed from 1700 onwards. This includes an examination of phonological, lexical, grammatical and orthographical change. Evaluate different theories, approaches and views to language change. Practise writing essays by examining exemplars and producing their own paragraphs/essays.
Assessment:	Past paper questionsIn class essays	Past paper questionsIn class essays
Stretch and challenge:	 Read the literacy section in 'Language Development' (Cambridge Topics in English Language) Read literacy related articles, such as: https://englishlangsfx.blogspot.com/search?q=literacy 	 Read 'Language Change' (Cambridge Topics in English Language) Read 'Attitudes to Language' (Cambridge topics in English Language)

English Literature

Topics / tasks:	Paper 1 Section A: Othello Non Examination Assessment (coursework)	Paper 2 Section C: Comparing Oranges Are Not the Only Fruit with one other text Section B: Unseen Prose
Content and skills:	 Evaluating strengths and areas for improvement from the mock exam of Othello. Exploring other types of love in Othello such as familial love and friendship. Practising writing essays by examining exemplars and producing their own paragraphs/essays. Critiquing their own and others' NEA Coursework detailed plans and first paragraphs. Producing first drafts of NEA coursework. Revising Unseen Poetry: poems based on romantic love. 	 Evaluating strengthens and areas for improvement from the mock exam of Oranges Are Not the Only Fruit compared to Skirrid Hill. Exploring remaining themes of and other areas of comparison between the above two texts. Revising how to analyse Unseen Prose extracts for how they present themes of 'modern times', such as isolation, roles of men/women, etc. Studying the narrative methods used in a wide variety of post-1945 extracts, for instance voice and perspective.
Assessment:	Writing a full Section A: Othello exam (1hr)	Writing a full Section C: Comparing Oranges Are Not the Only Fruit with Skirrid Hill exam. (1hr)
Stretch and challenge:	Reading secondary material to establish strong debate in their independent NEA coursework such as from the British Library online collection: https://www.bl.uk/learning/online-resources Reading a wide range of romantic poetry across the ages, from the Early Modern period (e.g. Wyatt, Donne, etc.) to present day (Langston Hughes, Carol Ann Duffy, etc.).	Reading a wide range of prose texts from 1945 onwards, such as <i>Invisible Man</i> by Ralph Ellison, <i>The Testaments</i> by Margaret Atwood, etc. Reading secondary material about issues of 'modern times', for example: https://www.bl.uk/learning/online-resources

Ethics and Philosophy

Topics / tasks:	Philosophy - Christian understanding of the nature of God. Ethics - Meta Ethics. Christian Thought - Gender and Society, Gender and Theology.
Content and skills:	Philosophy - Learners should have the opportunity to discuss issues related to developments in the understanding of the nature of God and the different possibilities presented by the key thinkers, including: whether or not it is possible, or necessary, to resolve the apparent conflicts between divine attributes; whether Boethius, Anselm or Swinburne provides the most useful understanding of the relationship between divinity and time; whether or not any of these thinkers are successful in resolving the problems of divine knowledge, benevolence, justice, eternity and human free will; whether the attributes should be understood as subject to the limits of logical possibility or of divine self-limitation. Ethics - Learners should have the opportunity to discuss issues related to meta-ethics, including: whether or not what is meant by the word 'good' is the defining question in the study of ethics, whether or not ethical terms such as good, bad, right and wrong: have an objective factual basis that makes them true or false in describing something reflect only what is in the mind of the person using such terms; can be said to be meaningful or meaningless; whether or not, from a common sense approach, people just know within themselves what is good, bad, right and wrong. Christian Thought - Learners should have the opportunity to discuss issues related to Christian responses to changing views of gender and gender roles, including: whether or not official Christian feaching should resist current secular views of gender; whether or not secular views of gender equality have undermined Christian gender roles; whether or not motherhood is liberating or restricting; whether or not the idea of family is entirely culturally determined. Learners should have the opportunity to discuss issues related to God, gender and feminist theology, including: a comparison of Ruether's and Daly's feminist theologies; sexism and patriarchy in Christianity, as it has developed in the mainstream Churches; whether or not a male saviour can sav
Assessment:	Students have essays to prepare for each strand of their A Level work.
Stretch and challenge:	Philosophy - Vardy, P. (1999) The Puzzle of God, Harper Collins, Section 4 Macquarrie, J. (1966) Principles of Christian Theology, SCM Press, Chapter 11. Ethics - Moore, G.E. (1903) Principia Ethica, Chapter II • Ayer, A.J. (1936) Language, Truth and Logic, London: Victor Gollancz, Chapter 6 • Mackie, J.L. (1977) Ethics: Inventing Right and Wrong, London: Penguin Books, Part 1.3. Christian Thought - Tong, R. (2013) Feminist Thought, Routledge, Chapter 1 • McGrath, A. E. (2010 5th Edition) Christian Theology, Wiley-Blackwell, pages 88–89, 336–337 Messer, N. (2006) SCM Study Guide to Christian Ethics, SCM Press, Chapter 8. Phyllis Trible, P. (1984) Texts of Terror, Fortress Press, Introduction and Chapter 2. Wilcockson, M. (2010) Social Ethics, Hodder Education, Chapter 2.

French

Topics / tasks:	Language work: 1. completing the work on "Les aspects positifs d'une société diverse" and starting the new topic of "Quelle vie pour les marginalisés". 2. Literature: completing the study of Boule de Suif and moving on to a further story, Madame Sauvage. Speaking: working on their 2 minutes presentation for their IRP (Individual Research Project)		
Content and skills:	Language work: reading and listening comprehension skills and speaking skills. Literature: developing skills of writing critical essays in French by completing short summaries and character studies. Speaking: through their IRP work, being able to analyse and evaluate their topic in a discussion		
Assessment:	Language work: homework and a Paper 1 (listening-reading-writing) on Units 1 and 4. Literature: writing an essay from a past paper on the year 12 set text, No et Moi.		
Stretch and challenge:	Language work: reading in French around the topics, listening to the news in French. Literature: reading other Maupassant short stories		

Geography

Topics / tasks:	Hazards	Global Systems & Global Governance
Content and skills:	The nature, distribution, causes, effects of and responses to seismic, volcanic, storm and wildfire hazards. In particular focusing on spatial and temporal variations and the role of human vulnerability in affecting the level of risk in contrasting case studies.	The nature and role of trade blocs, transnational corporations (TNCs) and global systems. Then focusing on inequality within global trade, the differential access to markets associated with levels of economic development and trading agreements and its impacts on economic and societal well-being, as well as examining fair trade and ethical investment.
Assessment:	Completing exam style questions that test the ability to interpret and analyse a range of figures as well questions that require the ability to accurately apply detailed knowledge to assess geographical issues and concepts.	Completing a range of types of exam question including 4 mark questions, 6 marks questions and 20 mark essays.
Stretch and challenge:	Go to the AQA A level Geography website and download past copies of A level paper 1, practice exam questions and check answers using the mark schemes. Reading widely around the topic using the guide provided at the start of the year as well as articles shared on Teams.	Go to the AQA A level Geography website and download past copies of A level paper 2, practice exam questions and check answers using the mark schemes. Reading widely around the topic using the guide provided at the start of the year as well as articles shared on Teams.

German

Topics / tasks:	FTO: A2 GRAMMAR: ONGOING A2 SPEAKING: IRP: ONGOING THEME 1: UNIT 3 – MULTICULTURALISM IN THE GERMAN-SPEAKING SOCIETY: RACISM · theme 1, unit 3.0: racism · theme 1, unit 3.1: the victims of racism · theme 1, unit 3.2: the origins of racism · theme 1, unit 3.3: fighting racism	JSW: A2 WRITING/ESSAY: EXAM PAPER 2: 7662 LITERATURE BOOK "DER BESUCH DER ALTEN DAME": ONGOING THEME 2: UNIT 5 – POLITICS AND YOUTH theme 2, unit 5.0: Politics and Youth theme 2, unit 5.1: Political engagement of teenagers theme 2, unit 5.2: Priorities for youth politics theme 2, unit 5.3: Values and ideals of young people
Content and skills:	Students will be developing their listening, speaking, reading, writing, grammar, translation and summarising skills. Students will learn new vocabulary and grammar to support their speaking and writing skills. Students will reinforce their vocabulary and grammar knowledge. Students will prepare their IRP for the speaking exam and practice writing A2 essays about the literature book "Der Besuch der alten Dame".	
Assessment:	Demonstrating their knowledge in vocabulary and grammar tests as well as an assessment in writing, listening, reading, translating and summarising.	
Stretch and challenge:	Learning more advanced vocabulary, practicing German gra additional essays on the literature book topic.	ammar, complete in depth research on the IRP and write

Government and Politics

Topics / tasks:	3.2.1. Government and Politics of the USA
Content and skills:	3.2.1.3 The executive branch of government: President; 3.2.1.8 Civil rights; 3.2.2 Comparative politics
Assessment:	Written assignments and mock exam.
Stretch and challenge:	Reading a textbook or teacher notes; Reading a broadsheet newspaper (Guardian, Times, Telegraph, Independent); picking a book from the reading list handed out at the start of term; using www.parliament.uk/briefing-papers/ or www.aqa.org.uk to look for past papers to practice

History

Topics / tasks:	Civil Rights in the USA, 1865-1992: African American civil rights	A topic of their choice related to 20th century British history
Content and skills:	Students will continue to investigate the African American pursuit of Civil Rights, before moving on to study how women in the USA pursued their civil rights. There will be depth studies on the Gilded Age, New Deal and radical feminism. They will be learning to construct historical theses, examine and evaluate interpretations of key periods and demonstrate thematic change over time.	Studying, researching and drafting a 4,000 word essay on a topic of their choosing, supported and guided by teaching staff. Continued revision of British History from 1951-1997, focusing on British Foreign Policy.
Assessment:	Planning and writing essays that cover change across and within the 127 year period of study; writing evaluative analyses of differing interpretations of key moments in the struggle for Civil Rights. There will also be a mock examination.	Engaging in academic supervision from staff. Essay writing on British Foreign Policy, 1951-1997.
Stretch and challenge:	Reading (general): Hugh Brogan, The Penguin History of the USA Andrew Reynolds, America: Empire of Liberty Reading (African American Civil Rights): Adam Fairclough, A Better Day Coming C. Vann Woodward, The Strange Career of Jim Crow Reading (Women's Rights): Doris Weatherford, Victory for the Vote: The Fight for Women's Suffrage and the Century that Followed	Reading: Having chosen a topic for coursework, students can ask teachers for recommendations related to their field of study.

Maths

Topics / tasks:	Numerical Methods Partial Fraction Proof Further differentiation Probability Forces Moments Transformations of Function
Content and skills:	 Revision and consolidation of previously learned skills Extension of skills to unfamiliar contexts Reasoning and problem solving skills
Assessment:	Mock examination. Weekly homework tasks.
Stretch and challenge:	 Completing enrichment tasks on <u>www.nrich.maths.org</u> Further reading and research

Media Studies

Topics / tasks:	Component 2 Set Texts and Exam Structure	Revision of key theorists : learning how to evaluate and apply theory to set texts
	Students will study the following Component 2 Units and set texts this half-term, as well as revising Component 1 set texts ready for mock exams.	Students will be revising key media theories this half term and will be taught how to evaluate these specifically for Component 2 exam texts.
Content and skills:	 Section A: Television in the Global Age – revising No Burqas Behind Bars and revising The Jinx. Section C: Media in the Online Age – revising Attitude and Zoella Section C: Magazines – studying The Big Issue & Vogue Component 3 NEA Coursework – students will be editing Documentaries and writing statement of aims for NEA 	 use and reflect critically upon a range of complex theories of media studies and use specialist subject-specific terminology appropriately in a developed way debate critically key questions relating to the social, cultural, political and economic role of the media through sustained discursive writing construct and develop a sustained line of reasoning which is coherent, relevant, substantiated and logically structured in an extended response.
Assessment:	Timed exam questions for each set text. Mock exam in Novemb Ongoing class tests/Teams quizzes on key theorists and terminol	
Stretch and challenge:	Use the Media Studies Teams Component 2 section to access further exam questions, exemplar responses and extra reading links for each set text.	Use the Media Studies Teams Key Theorist section to watch the videos for every theorist studied and follow the links suggested for further reading.

Music

Topics / tasks:	AOS1: Romantic Piano Music: Brahms AOS7: Art Music: Reich Composition: Free Composition
Content and skills:	Continuing to develop aural perception skills Exploring cultural context of set topics/composers Assimilating advanced harmonic techniques free composition
Assessment:	Regular exam-style listening questions Longer passages of written prose analysis Formative assessment of evolving Free Composition
Stretch and challenge:	Undertake some further reading in the areas of 'Romantic Piano Music' and 'Art Music Since 1910' Revisit previous content and written work, improving in response to teacher feedback

Physics

Topics / tasks:	Module 5 – Newtonian world and astrophysics	Module 6 – Particles and medical physics
Content and skills:	 Stars Objects in the universe The life cycle of stars The Hertzsprung-Russell diagram Energy levels in atoms Spectra Analysing starlight Stellar luminosity Cosmology Astronomical distances The Doppler effect Hubble's law The Big Bang theory Evolution of the universe 	Capacitance Capacitors in circuits Energy stored by capacitors Discharging and charging capacitors Uses of capacitors Electric fields Coulombs law Uniform electric fields and capacitance Charged particles in uniform electric fields Electric potential and energy Magnetic fields The motor effect Charged particles in magnetic fields Electromagnetic induction
Assessment:	November mock exams. In-class assessment, homework assignments.	
Stretch and challenge:	Completing relevant exercises on Isaac Physics website.	

Physical Education

Topics / tasks:	Physiology, psychology and socio-cultural topics	
Content and skills:	In psychology students will understand and apply Schmidt's schema theory to sporting situations. Also understand Wiener attribution theory and linked task persistence. In physiology students will examine fluid mechanics. They should understand dynamic fluid force and relate these concepts to drag and lift. In socio-cultural topics students will examine deviance in sport, focussing on violence on and off the pitch and drugs in sport. They will also consider the link between sport and the law.	
Assessment:	Everlearner checkpoint tests and long answer questions and exam style questions.	
Stretch and challenge:	Use PE journals and internet sources to read beyond set A level text books. Also keep up to date with current sporting issues in relation to topics covered.	

Psychology

Topics / tasks:	Topic 3 - Forensic Psychology Topic 4 - Issues & Debates
Content and skills:	Topic 3 - Offender Profiling, Biological explanations of offending behaviour, Psychological explanations of offending behaviour and dealing with offender behaviour. Topic 4 - Gender & culture in psychology, Freewill and determinism, Nature-nurture debate, Holism and reductionism, Idiographic and nomothetic approaches and Ethical implications of research.
Assessment:	Written assignments, multi choice questions and mock assessment in November of a number of AS and A level topics to date.
Stretch and challenge:	Using the text book: Chapters 12 & 4

Sociology

Topics / tasks:	Sociology of Crime and Deviance
Content and skills:	Theories of Crime and Deviance; Social distribution of Crime; Globalisation and Crime, State Crime and Green Crime; Punishment, Victims and the CJS.
Assessment:	Written assignments and mock exam.
Stretch and challenge:	Use the textbook and read relevant sections; Read a broadsheet newspaper to find social commentary on these issues; Listening to 'Thinking allowed' on BBC Radio 4 and using their archive; Looking at 'TED' talks that are relevant to sociology; Looking at LSE blogs on social political commentary https://blogs.lse.ac.uk/

Spanish

Topics / tasks:	Begin to read the Spanish play' Las bicicletas son para el verano' devoting one lesson and one homework each week. The remaining 2 lessons will be language lessons revising & consolidating grammar from year12 and learning new content. Students will examine the positive and negative aspects of immigration and learn more about immigration in the Spanish speaking world and the problems illegal migrants might face.	
Content and skills:	Learn how to use dictionaries and translators to support their learning. Learn about loan words and synonyms. They will revise the present tense and imperfect and preterite tenses going back to basics if needed and then focus on compound tenses.	
Assessment:	Preparing answers to sample questions which will allow them to talk confidently about the language topics covered. Students will be given cards to prepare for speaking lessons using examples from past papers. Feedback will be given orally in Speaking lessons. Listening & summaries will be set in class and marked by their class teacher/or peers and reading comprehensions and translation will be set as homework tasks. Formal assessment will take the form of a November exam and will test all skill areas	
Stretch and challenge:	Reading ahead and preparing the text & watching Spanish films recommended for A level study. In addition, they must read about the historical events around the time of the film & play studied. Students should have an awareness of current affairs and build up a dossier of relevant documents relating to the yr13 topics. (Immigration/Racism/integration/young people/youth unemployment/society/dictatorship in Spain & Latin America/the Monarchy /protests & strikes& Trade unions.)	