



Westcliff High School for Boys

**Guidance for
Year 12 Students preparing for
Internal Examinations 2020**

YEAR 13 INTERNAL EXAMINATIONS

SEPTEMBER 2020

	Session 1 (8.50am start)	Session 2 (11.15am)	Session 3 (1.55pm start)
Thursday 10 Sept	History (1.30hr) PE (1.30hr) Religious Studies (1.30hr)	Geology Written (1.30hr)	Maths Pure (1.30hr)
Friday 11 Sept	Geography (1.30hr) Further Maths (1.30hr)	English Lit. (1.30hr) Computer Science (1.30hr)	Biology (1.30hr)
Monday 14 Sept	Music (1.30hr) French/German/Spanish (1.30hr) Product Design (1.30hr)	Economics (1.30hr)	Chemistry (1hr+1hr)
Tuesday 15 Sept	Maths Applied (1.30hr)	Psychology (1.30hr)	Physics Paper 1 (1.30hr) Politics Paper 1 (1.30hr)
Wednesday 16 Sept	Art	Art	Art

Morning Examinations:

Session 1 Report to the Examination Room by 8.45am.

Session 2 Report to the Examination Room 5 minutes before the scheduled start time.

Afternoon Examinations:

Session 3 Report to the Examination Room by 1.50pm.

Timetable Clashes:

There are a small number of students where, given the breadth of subjects being studied in the Sixth Form, a timetable clash occurs. Each student affected will be notified by Mrs Economou of an alternative time for their examinations.

MFL Oral Examinations:

Individual timings for French, German and Spanish oral examinations will be notified under separate arrangements.

ART

You will not have a formal examination in Art, as there will probably not be examinations in the Summer of 2021 in this subject. However, during the Internal Examination period, you will be given one whole School day to work on your portfolio pieces. During the day, you can expect to be interviewed by Ms Glasscock or Ms Gellard regarding your sketchbook, your vision for your portfolio, the status of your progress at present and your milestones and particular targets and challenges for the near future. You should ensure that you bring your sketchbook and all journals relating to your project to show your teachers on that day. You will also have the opportunity to ask questions and seek advice on the direction of your project. It is anticipated that you will enjoy the opportunity to spend an uninterrupted period of time on your Art in the company of your colleagues with the opportunity for detailed mentoring from staff.

The grade you will be given will be determined holistically from your progress with your portfolio to date, your work during the day, and the conversation.

As preparation for this day, you will be expected to submit a detailed plan of how you will effectively use this time, and what work you aim to complete. Within your sketchbook, there will need to be a written statement of intent, explaining your journey throughout this project and how it has led to your current outcome. More information will be provided to you when you return to school in September. Sketchbooks should be up to date and you should continue to work on this over the summer break.

BIOLOGY

Format of the Exam

One paper (1hr 30mins) includes all topics (Biological molecules, Cells, Organisms exchange substances with their environment, Genetic information, variation and relationships between organisms, Survival and response, Nervous Coordination, Homeostasis, Nutrient cycles, Energy and Ecosystems, Populations) with short answer questions, extended response questions and comprehension questions.

Resources for Revision:

Students should use their class notes, textbook, booklets of questions and assessments to revise from.

CHEMISTRY

Format of the Exam

Students will sit two, one-hour papers back-to-back. Each paper will be out of 50 marks.

Paper 1 (1hr)

Structure: A mix of multiple choice, short answer and extended answer questions.

Content: This will cover topics from Paper 1: Inorganic and Physical Chemistry which is primarily blue side. This will include Topic 1: Atomic Structure and Periodicity, Topic 2: Bonding and Structure, Topic 3: Redox I, Topic 4: Inorganic Chemistry, Topic 5: Moles, Formulae and Equations (overlap with Paper 2), Topic 8: Energetics I, Topic 10: Equilibrium I and Topic 15: Transition Metals. Core Practicals relevant to the material will also be covered.

Paper 2 (1hr)

Structure: A mix of multiple choice, short answer and extended answer questions.

Content: This will cover topics from Paper 2: Organic and Physical Chemistry which is primarily green side. This will include Topic 5: Moles, Formulae and Equations (overlap with Paper 1) and Topic 6: Organic Chemistry I, Topic 7: Modern Analytical Techniques I, Topic 9: Kinetics I and Topic 17: Organic Chemistry II. There may also be some overlap with Topic 2: Bonding and Structure. Core Practicals relevant to the material will also be covered.

Revision Materials:

The *Microsoft* Teams page will host mark schemes for both text books. Students should complete all text book end-of-chapter questions in the first instance and review the MCQ, core practical and topic test assessments from the last year. In addition students will find www.chemguide.co.uk a useful source of supplementary notes tailored for the UK A Level syllabuses. Jim Clark's *Calculations in A Level Chemistry* text book is an invaluable resource for anything with a mathematical underpinning.

COMPUTER SCIENCE

Format and Content of Internal Computer Science Exam

The normal format of the internal examination is two distinct papers both lasting 90 minutes.

As with the full A-Level papers these do not traditionally have any set structure though they do cover specific sections of the course. For the sake of this formative we will break from this structure instead there will be one paper with three distinct sections.

Section A – 40 marks (30 minutes) of multiple-choice questions to assess knowledge of a broad range of topics covering both Components.

Section B – 30 marks (30 minutes) of Past Paper questions in the style of Paper 1 (Component 1 – Computer Systems)

Section C – 30 marks (30 minutes) of Past Paper questions in the style of Paper 2 (Component 2 – Algorithms and Programming)

Component 1 Topics Focuses on testing knowledge of the theory topics including - hardware, functions of a processor, Boolean algebra, binary conversion/addition, two's complement, floating point, TCP/IP stack, Networks, databases, HTML&CSS and some pseudocode.

Component 2 Topics Focussed on testing students understand of some of the set algorithms along with expecting students to generate their own pseudocode for specific tasks. At this point you are expected to have a working knowledge of the sorting, searching and Dijkstra Algorithms. You will also be expected to answer questions about data structures such as linked lists, hash tables and queues.

The list of topics has been reduced to reflect the what has been covered to a suitable depth at this point in the course.

Revision Resources and Advice

The recent work on Microsoft Teams has covered a number of these topics. In addition, some additional resources of Past Papers will be made available through teams. Other websites you may find useful include.

The exam board section for H446 Computer Science

Exam Board - <https://bit.ly/2OwkUXb>

Other Useful Sites

Craig n Dave - <https://craigndave.org/ocr-alevel-h046-h446/>

Teach-ICT H446 - <https://bit.ly/3eDdZGe>

W3Schools (HTML and CSS) <https://www.w3schools.com>

DESIGN TECHNOLOGY (PRODUCT DESIGN)

Format of the Exam

There will be one 1-hour and 30-minute paper, which will cover the content that you have studied this year. It should be noted that this paper will include mathematical equations and you will be required to bring with you a calculator and a ruler. The paper will not be in the same format as you will be given for your actual examination; the content is designed to test your knowledge and understanding of topics.

Content

You will be required to answer all questions in the space provided. For questions requiring mathematics, you must show all of your working out, with your answer clearly identified at the end of the solution.

The paper is out of **80 marks** in total. There will be a mixture of short answer questions and extended response questions. Take the time to note how many marks will be awarded for each question and answer correspondingly.

Questions will range from across all areas but particular attention may be necessary in 3.1.1 Materials and their application; 3.1.3 Enhancements of materials; 3.1.4 Forming, redistribution and addition processes of metals and plastics; 3.1.9 Health and safety; 3.1.11 Designing for manufacturing, maintenance, repair and disposal. Please note that this list is non-exhaustive and should not be used in isolation; you should still revise all sections of content. In addition, you may find it useful to review 3.2.2 Design styles and movements.

Resources for Revision

Students should use their class notes, textbook and assessments to revise from. In addition, you may find it useful to visit technologystudent.com and exam board websites for additional information.

ECONOMICS

Format of the Exam

One 90-minute paper comprised of multiple choice, data response and essay questions drawn from Themes 1, 2 and 3.

Resources for revision

Students should use their class notes, textbook, and resources utilised during the remote learning period. Past exam papers and mark schemes can be accessed at:

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/economics-a-2015.coursematerials.html#%2FfilterQuery=category:Pearson-UK:Category%2FExam-materials>

ENGLISH LITERATURE

Format and Content of the Examination

There will be one 90 minute paper, which focuses on Unseen Poetry from Paper 1 and Unseen Prose from Paper 2 of the A-level exam.

Content covered in this paper:

- unseen poetry
- unseen prose

Style of questions in this paper:

Paper 1 Section B: (unseen poetry): It has been said that Rossetti's poem is conventional and celebratory, whereas Millay's poem offers a very different view of love. Compare and contrast the presentation of love in the following poems in the light of this comment.

Paper 2 Section B: (unseen prose) Explore the significance of power in this extract. Remember to include in your answer relevant detailed analysis of how the author shapes meanings.

Revision Resources and Advice:

- Refer to the WHSB Inklings site as it contains a secondary sources section.
 - Go through the critical materials handouts and learn key quotations from critics. It would be a good idea to divide these by character/theme. Use these to help support your argument in the exam.
 - Unseen poetry comparisons will have been practised in lessons; refer back to all feedback you have been given on your unseen work. Review previous unseen essays and choose one paragraph to improve, adding as much additional detail as possible.
 - Revise close reading skills and the exam rubric.
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FRENCH / GERMAN & SPANISH

There will be one written examination: Students will be sitting a paper which will last 1 hour 30 minutes and is divided into three sections (Reading, Translation and a Writing task). It will test comprehension skills, grammar, vocabulary relating to the topics studied this year and the book or film studied in Year 12. Students will be required to translate from German / French / Spanish into English and from English into German / French / Spanish. The writing task will be an essay on the book or film studied this year. Students will have a choice of essays.

There will be an Oral examination (20-23 minutes) in which pupils will need to present a topic of their choice (2 min) which is followed by a general conversation relating to the topic (9-10 min). Finally, students will have five minutes to prepare a topical stimulus text taken from the themes students have studied this year. They then need to answer questions and enter into a discussion about this text and its topic (5-6 min), ensuring they ask two questions of their own. The speaking examination will take place after the written examination.

GEOGRAPHY

Your autumn term exam paper will include components of both Paper 1 and Paper 2, including all of the areas of content we have studied so far. You will have a question booklet (in which you will write) that will contain any figures you need to refer to. The total paper will last for 90 minutes and you are strongly advised to spend equal time on Sections A and B.

Section A: Physical geography (recommended time: 45 minutes, worth 40 marks)

Sections
Q1 (Topic 2A: Glaciated Landscapes and Change) – this section will likely have four multiple-choice questions, one 4-mark question and one 12-mark question.
Q2 (Topic 5: The Water Cycle and Water Insecurity) – this section will likely have four multiple-choice questions, one 4-mark question and one 12-mark question.

Section B: Human geography (recommended time: 45 minutes, worth 40 marks)

Sections
Q3 (Topic 3: Globalisation) – this section will likely have four multiple-choice questions, one 4-mark question and one 12-mark question.
Q4 (Topic 4B: Diverse Places) – this section will likely have four multiple-choice questions, one 4-mark question and one 12-mark question.

For your revision, you should use your exercise books as a starting point. These will give you the structure of the course and the key notes. Given the nature of the home learning since March 2020, check that all the work you completed electronically has been printed and put into the correct order in your books. Having your books in the correct order will help your revision process enormously.

The textbook will also be very useful as it covers the course specification in a logical order. In addition, refer to the relevant pages of the specification (a copy was issued at the start of the year; it is also available on the Edexcel website) to see the terminology used.

Most importantly, keep your revision active; for example, producing summary mind maps and answering practice questions are more effective than just reading through your notes. Sometimes, students find creating audio files of their notes can be helpful – verbalising case studies or concepts immediately highlights areas of strength or a shortcoming to go back over.

GEOLOGY

The 90 minute paper will consist of sections A and B. Section A, 45 minutes in length, is a practical exam and it is worth 30 marks. The paper will require an investigation of the geology of an area shown on an accompanying simplified geological map, involving:

- a) the interpretation of actual specimens and photographs of minerals, rocks and fossils;
- b) the completion of questions of a practical nature using short, structured and extended written answers.

Section A will be similar in academic standard to Component One (called 'Geological Enquiries') of the Eduqas Specification.

Section B is a more theoretical paper. It is 45 minutes in length and is worth 30 marks. The paper itself will involve the completion of questions using short, structured and extended written answers.

Most questions in Section B will place an emphasis on problem-solving, presenting students with previously unseen geological settings. Such questions may also contain mathematical calculations.

Section B will be similar in academic standard to Component Two (called 'Foundation Geology') of the Eduqas Specification.

Revision Sources, Advice and Other Comments

1. Section A and B will carry equal weighting in the overall Year 12 assessment.
2. In conjunction with your copy of the Specification, revise from your notes and other materials gathered throughout the academic year from your independent research work.
3. Use your past papers to practise similar types of questions to those that will be set in sections A and B.
4. Section A is based on practical work. Some of your preparation for this Paper will rely on your extra practical work done in your free study time within E3. This reflects the need to work from actual specimens that are only available in E3. You will also need to revise from your Specified Practical folder in which much mineral, rock and fossil practical work is contained. Access to this folder can take place in September.
5. Revise the relevant sections within your Eduqas Mathematical Guidance booklet. To do this you will need to cross relate the mathematical skills required with the relevant Specification details.

HISTORY

There will be a single paper of 1 hour 30 minutes length. The first question will be from a choice of two essays, covering the Religion and Economics sections of the Stuart course between 1625 and 1688. The second question will be a compulsory source question on Russia, from the period between the February 1917 Revolution and 1924. The two essays will each carry equal weight (20 marks available per essay) and you should spend 45 minutes on each question. You should use your book of notes, course texts, recorded online lectures and powerpoints, together with all handouts and articles for revision.

MATHEMATICS AND FURTHER MATHEMATICS

Format and Content of Internal Exam

Mathematics: 2 papers, both 1 hour 30 minutes long. One will be on Pure Mathematics and the other is on Applied Mathematics. All of the examinations will allow calculators.

Further Mathematics: 1 paper, 1 hour 30 minutes long. It will focus on Core 1 and FP1 Chapter 1 - Vectors only. Calculators are allowed. Applied content will be examined in unit tests completed in class in the week after these examinations.

For a detailed list of topics, please consult the email provided by Mr Dowding on behalf of the department.

Revision Resources and Advice

Students have access to some preparation papers which will be on the OneDrive, and Mr Dowding has sent around a detailed revision list via email. They should make use of these questions, as well as other online resources such as Dr Frost's Powerpoint Slides and the Past Paper Powerpoint Slides. There is a lot of material for the new specification A level, but it is also very similar to the content studied in Core 1 and Core 2 of the old A level specification.

There will be very few paper papers available at the moment, and those "Specimen" papers should be used with caution. Quite often the difficulty of these papers is misjudged (either too easy or too hard). The mixed exercises and review exercises from the next Text Books are also suitable for revision, and in fact should be the preferred choice. A digital copy is available on Mr Dowding's OneDrive, for which a link has been sent on email multiple times.

Students looking for extension questions should look towards a set of papers called the IYGB papers which are made specifically to include the harder questions from the Year 1 content. Alternatively, MadasMaths offers some good extension examination questions.

MUSIC

Format and Content of the Examination There is only one written examination in Music for Component 3. A curtailed version of this paper will form Autumn's assessment.

Component 3: Appraising The assessment is usually 2 hours and is marked out of 100 marks. However, autumn's Music assessment will only be **1 hour and 30 minutes**. To make this time, two of the Section A questions will be removed from the paper. As such, the altered examination will be as follows:

Section A: Approximately 20 marks, two questions: One based on an extract from the set works and one question on dictation.

Section B: 50 marks – one essay question on an unfamiliar piece of music and one essay chosen from three optional questions on a set work.

Students must answer all questions, with the exception of Question 6 which will give a choice of three options, of which students must answer one. The paper will include multiple-choice, short open and extended writing questions. Each student will have a CD containing the extracts of music relating to the exam, and will be in control of listening to the extracts relating to each question.

Revision Resources and Advice Ensure that you use the set work notes distributed by the exam board. Also ensure that you revise while listening to the set works and following an annotated score.

PHYSICAL EDUCATION

Format and Content of the Examination

There will be one paper of 90 minutes in duration. The question types will be drawn from both Paper 1 (Exploring Concepts on Physical Education) and Paper 2 (Evaluating Physical Education). The paper will be out of 105 marks.

The Trial Examination paper will be divided into three sections.

Section A will contain three structured response questions on discrete areas of the course. The topics covered will be: (i) Movement analysis; technology, and biomechanics; (ii) Exercise physiology, training and performance; (iii) Sport psychology and (iv) Skill acquisition. This section will be worth 50 marks and will test predominantly AO1 and AO2 assessment objectives.

Section B will involve a case-study question based around one specific sport. This question will be synoptic in nature and will examine AO1, AO2 and AO3 assessment objectives. This section will attract 35 marks.

Section C will be an essay question on the topic of Sport and society. This question will examine AO1, AO2 and AO3 assessment objectives and is worth 20 marks.

PHYSICS

Format and Content of Internal Exam

(1hr 30mins) includes short and long answer questions (70 marks) covering the entirety of the course.

All content can be included: particle physics, quantum phenomena, electricity, kinematics, dynamics, statics, energy, materials, waves, optics, circular motion, simple harmonic motion, thermal physics., gases, fields, radioactivity, nuclear physics, and capacitors.

Students must bring a scientific calculator, black pens, pencils and 30cm clear plastic ruler to the exams. Data booklets will be provided, so students should not bring their own in.

Revision Resources and Advice

Notes and electronic resources are on *Microsoft Teams*, including drill sheets and Über papers. Specimen papers are available from AQA, as are legacy papers. Legacy papers from units 1, 2, 3, 4, and 5 of "AQA AS/A2 Level Physics A" would be most appropriate.

POLITICS

There will be one Paper. It will be **UK POLITICS** (i.e. Mr Stevens' topics).

Paper 1: UK POLITICS (1hr 30minutes)

There will be two Sections. Section A will consist of one 30 mark essay from a choice of two. Section B will consist of a compulsory 30 mark source-based question. The topics covered will be: democracy and participation, political parties, electoral systems, and voting behaviour and the media. There will not be a question on Core Ideologies.

Please make sure you revise:

- 1 Current systems of representative democracy and direct democracy
- 2 Pressure groups and other influences
- 3 Functions and features of political parties
- 4 Established political parties
- 5 Different electoral systems and UK electoral system analysis
- 6 Referendums and how they are used
- 7 Case studies of three key general elections, including voting behaviour
- 8 The influence of the media

This is effectively the whole of Chapters 1 - 4 of the textbook.

Please note that we will additionally have a short answer "knowledge test" on UK GOVERNMENT (i.e. Mr Neagus' topics). There will be 4 sections, reflecting Chapters 5 - 8 of the textbook. This test will take place in class as soon as possible after the exam period; we will hope to give you a weekend for revision but some revision - or preparing revision cards etc. - in advance would be helpful. The third element to go towards your predicted grade will be your better mark from the two Liberalism essays and the better mark from the two Conservatism essays set on-line this term.

PSYCHOLOGY

Format and Content of Internal Examination.

There will be one paper, 1 hour 30 minutes in duration (total of 72 marks). The following topics will be included.

Social Influence
Memory
Attachment
Psychopathology
Research Methods

***Please Note: You must bring a calculator and clear, plastic ruler to all examinations. Approaches and Biopsychology topics are NOT included on this exam.**

Revision Resources and Advice

- Utilise your folder and the notes you have created in lesson time. Refer to the AQA website and the AQA Specification for Psychology (<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182>). You can use the Specification and the Confidence Ratings worksheets completed at the end of each topic as a checklist. You should also use these to format your revision materials under specific headings. You are also encouraged to utilise your textbook and Kerboodle, including exam-style questions embedded within each section. Make use of online videos and documents; however, remember to be critical of the authorship and quality of online resources. Email me regarding any questions or concerns.
- Specific Revision Advice: Do not revise without exam practice. Anticipate the style of questions you will be asked and revise accordingly. You will be given a range of A01/A02/A03 questions. Consult the AQA Psychology website.

RELIGIOUS STUDIES

Format and Content of the Examination

The examination will be two essay questions (each worth 40 marks) in 90 minutes.

Essay one will be based on the module Mind, Body, and Soul which was covered in the Autumn term. Essay two will be on a module studied during the period of remote learning, The Person of Jesus Christ.

Revision:

Powerpoints for each of the topics have been uploaded to Microsoft Teams, to complement the information in the text book. Examination board information and specification: <https://www.ocr.org.uk/Images/242913-specification-accredited-a-level-gce-religious-studies-h573.pdf>