

Year 10
Study Guide
June 2023



Year 10 Exam Timetable

Students will be allowed to study until the start of the exam.

Extra time shown in red.

Date	Session 1	Session 2	Session 3
Thursday 15th June	Physics m/c 30 mins 8.00 – 8.30 (+8mins 8.00 – 8.38) Theory 1hr 8.45 – 9.45 (+15mins 8.45 – 10.00)	Latin Component 1 1hr 30 mins 10.15 – 11.45 (+23 mins 10.15 – 12.08)	English Language 1hr 1.45 – 2.45 (+15 mins 1.45 – 3.00)
Friday 16th June	Biology m/c 30 mins 8.00 – 8.30 (+8mins 8.00 – 8.38) Theory 1hr 8.45 – 9.45 (+15mins 8.45 – 10.00)	Latin Component 2 1hr 15 mins 10.30 – 11.45 (+19 mins 10.30 – 12.04) Geography 1hr 30 mins 10.15 – 11.45 (+23 mins 10.15 – 12.08)	PE
Tuesday 20th June	Latin Component 3 1hr 8.30 – 9.30 (+15mins 8.30 – 9.45)	Travel and Tourism 1hr 30 mins 10.15 – 11.45 (+23 mins 10.15 – 12.08)	Chemistry Alt to practical 1hr 1.45 – 2.45 (+15 mins 1.45 – 3.00)
Wednesday 21st June	Physics Alt to practical 1hr 8.30 – 9.30 (+15mins 8.30 – 9.45)	Maths Core P1 1hr 11.00 – 12.00 (+15mins 11.00 – 12.15) Ext. P2 1hr 15mins 10.40 – 11.55 (+19mins 10.40 – 12.14)	Revision/PE
Thursday 22nd June	English Literature 1hr 8.30 – 9.30 (+15 mins 8.30 – 9.45)	Maths Core P3 1hr 15 mins 10.40 – 11.55 (+19mins 10.40 – 12.14) Ext. P4 1hr 30 mins 10.15 – 11.45 (+23 mins 10.15 – 12.08)	Biology Alt to practical 1hr 1.45 – 2.45 (+15 mins 1.45 – 3.00)
Friday 23rd June	Chemistry m/c 30 mins 8.00 – 8.30 (+8mins 8.00 – 8.38) Theory 1hr 8.45 – 9.45 (+15mins 8.45 – 10.00)	Business Studies 1hr 30 mins 10.15 – 11.45 (+23 mins 10.15 – 12.08)	PE

English Literature – Mr. Andy

Your exam paper is going to cover Othello and Life of Pi. For both texts you will be asked questions that need you to write longer style answers. In your responses you will need to use quotes from the texts as evidence for what you are saying. You will not need to learn quotes as you will be given copies of the text in the exam but it is a good idea to have some ideas of some of the important quotes you may need to use.

For both texts you need to revise the following areas:

- The book basics
- The context of the story – the history, background, social context, etc.
- The author's biography
- The characters and character summaries
- The plot summary, including breaking this down into chapters
- Some important quotes
- Symbolism within the text
- Themes
- Motifs

All lesson resources and the comprehensive study guide can be found on the Year 10 English Website:

<https://cfenglish10.weebly.com/study-guides.html>

<https://cfenglish10.weebly.com/syllabus.html>

English Language – Mr. Andy

In your English Language exam you will be given a stimulus piece of writing. From this you will be asked two questions which test your skills of reading AND writing.

You will be expected to be able to do the following:

- Use evidence in the text of both explicit and implicit ideas.
- Identify and explain both explicit and implicit ideas in the text.
- Be able to select relevant ideas.
- Organise and structure your responses appropriately.
- Use your own words, concisely, to show you have understood a wide range of ideas from the text.
- Write accurately avoiding errors of spelling, grammar and punctuation.
- Choose a range of examples from the text as evidence within your response.
- Be able to explain why an author has used specific language to create an effect.
- Consider a different perspective to the original text.
- Adapt your writing style to a different purpose.
- Evaluate the information within the text for use in your answer.
- Take account of your audience within your response and design your answer to engage and interest the reader.
- Use precise, well-chosen vocabulary and varied sentence structures.

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Maths Core – Ms. Kirsten

You will be sitting two maths papers. The first (Paper 1) is short answer questions and the second (Paper 3) is structured questions. You will be expected to show your workings throughout the papers.

C1 Numbers

- C1.1 Classification of numbers, factors and multiples
- C1.2 Venn Diagrams
- C1.3 Powers and Roots
- C1.4 Directed numbers
- C1.5 Fractions, decimals and percentages
- C1.6 Ordering and symbols
- C1.7 Indices (fractional, negative and zero)
- C1.8 Operations
- C1.9 Estimation and Rounding
- C1.10 Bounds
- C1.11 Ratio and Proportion
- C1.12 Percentages
- C1.13 Calculator Skills
- C1.14 Time
- C1.15 Money
- C1.16 Simple and Compound Interest
- C1.17 Exponential Growth and Decay

C2 Algebra and Graphs

- C2.1 Substitution
- C2.2 Factorizing
- C2.3 Algebraic Fractions
- C2.5 Simultaneous Equations
- C2.7 Sequences
- C2.10 Practical Graphs
- C2.11 Graphs

C3 Coordinate Geometry

- C3.1 Coordinates
- C3.2 Straight line graphs
- C3.3 Midpoint
- C3.4 Equation of a straight line
- C3.5 Parallel lines
- C3.6 Perpendicular lines

C4 Geometry

- C4.1 Terms and Vocabulary
- C4.2 Constructions
- C4.3 Scale drawings
- C4.4 Similarity
- C4.5 Congruency
- C4.6 Symmetry
- C4.7 Angles

Maths Extended – Ms. Kirsten

You will be sitting two maths papers. The first (Paper 2) is short answer questions and the second (Paper 4) is structured questions. You will be expected to show your workings throughout the papers.

E1 Numbers

- E1.1 Classification of numbers, factors and multiples
- E1.2 Venn Diagrams
- E1.3 Powers and Roots
- E1.4 Directed numbers
- E1.5 Fractions, decimals and percentages
- E1.6 Ordering and symbols
- E1.7 Indices (fractional, negative and zero)
- E1.8 Operations
- E1.9 Estimation and Rounding
- E1.10 Bounds
- E1.11 Ratio and Proportion
- E1.12 Percentages
- E1.13 Calculator Skills
- E1.14 Time
- E1.15 Money
- E1.16 Simple and Compound Interest
- E1.17 Exponential Growth and Decay

E2 Algebra and Graphs

- E2.1 Substitution
- E2.2 Factorizing
- E2.3 Algebraic Fractions
- E2.4 Fractional Indices
- E2.5 Simultaneous Equations
- E2.6 Graphical Inequalities
- E2.7 Sequences
- E2.8 Direct and Inverse proportion
- E2.9 Functions
- E2.10 Practical Graphs
- E2.11 Graphs
- E2.12 Tangents
- E2.13 Differentiation

E3 Coordinate Geometry

- E3.1 Coordinates
- E3.2 Straight line graphs
- E3.3 Midpoint
- E3.4 Equation of a straight line
- E3.5 Parallel lines
- E3.6 Perpendicular lines

E4 Geometry

- E4.1 Terms and Vocabulary
- E4.2 Constructions
- E4.3 Scale drawings
- E4.4 Similarity
- E4.5 Congruency
- E4.6 Symmetry
- E4.7 Angles

Biology – Mr. Will

You will be sitting two Biology exam papers. One will be a multiple choice and theory and one will be an alternative to practical. You need to revise all the topics below and they could come up on both papers.

1. Characteristics of living organisms
2. Organisation of the organism
3. Movement in and out of cells
4. Biological molecules
5. Enzymes
6. Plant nutrition
7. Animal nutrition
8. Plant transport
9. Animal transport
10. Disease and immunity
11. Gas exchange in humans
12. Respiration
13. Excretion in humans
14. Coordination and response
15. Drugs

Chemistry – Mr. Will

You will be sitting two Chemistry exam papers. One will be a multiple choice and theory and one will be an alternative to practical. You need to revise all the topics below and they could come up on both papers.

1. States of matter
2. Atoms, elements, compounds
3. Stoichiometry
4. Electrochemistry
5. Chemical energetics
6. Chemical reactions
7. Acids, bases, and salts
8. The periodic table

Physics – Ms. Will

You will be sitting two Physics exam papers. One will be a multiple choice and theory and one will be an alternative to practical. You need to revise all the topics below and they could come up on both papers.

1. Motion, forces and energy
2. Thermal physics
3. Waves

Business Studies – Ms. Mel

You will be sitting one 1hr 30 minute paper which will be made up of four questions. Two questions will be the short answer style questions and two will be the data response questions. The topics we have covered this year and could be on the exam are:

- Economic needs and wants
- Purpose of business activity
- Resources/Factors of Production
- Opportunity Cost
- Stakeholders
- Objectives
- Private and public sector business
- Objectives of social enterprises
- Added value
- Entrepreneurship
- Liability
- Sole traders
- Partnership
- Business Plans
- Deeds of Partnership
- Limited Companies – Ltds and Plcs
- Government support for businesses
- Primary, secondary and tertiary business
- Location
- Measure of size of a business
- Growth and integration (mergers and take overs)
- Economies of scale
- Specialisation
- Organisational structure
- Management and functions of management
- Delegation
- Communication
- Motivation – financial and non-financial methods
- Leadership
- Recruitment
- Training
- Downsizing – redundancy and dismissal
- Trade Unions
- Legal controls – employment contracts, unfair dismissal, discrimination, health and safety, minimum wage.

Geography – Mr. Alex

You will be sitting one exam paper that is 1 hour 30 minutes long. This will cover the topics below:

- Urban zones (CBD, Inner, Outer, Rural)
- Urbanisation
- Plate Boundaries (constructive margins, destructive, conservative)
- Types of volcanoes
- Living with volcanoes
- Drainage basins
- River processes
- Parts of a river
- River features
- Flooding
- Coastlines
- Waves
- Types of erosion and landforms created
- Transportation and deposition
- Spits and other landforms created by deposition
- Coral reefs and mangrove swamps
- Measuring weather and clouds
- Climate and vegetation
- Tropical storms and hurricanes

Latin – Ms. Steph

Year 10 Latin - Website Exam Guide Link [here](#)

Component 1 (Language - 50%)

- Chapters 1-4 of your text books
- Resources to use to revise: (i) text book Chapters 1-4, you can use the [online text book](#), too (ii) grammar book and tables in grammar book; (iii) [website Component 1 page](#); (iv) [Devised Vocabulary List](#) from exam board and [online vocab tester](#); (v) exercise book with practice exercises; (vi) [revision videos](#) on website
- Content to revise:
 - Devised Vocabulary List up to the last word we have learnt
 - present tense endings of verbs (o,s,t,mus,tis,nt)
 - present tense endings of verb 'to be' (sum, es, est, sumus, estis, sunt)
 - imperfect tense endings of verbs (bam, bas, bat, bamus, batis, bant)
 - imperfect tense endings of the verb 'to be' (eram, eras, erat, eramus, eratis, erant)
 - perfect tense endings of verbs (i, isti, it, imus, istis, erunt)
 - perfect tense verbs which change their stems (e.g. mitto goes to misi, duco goes to duxi)
 - irregular verb 'to be able' (possum) in both present and imperfect tenses
 - 1st declension nouns which end in 'a'
 - 2nd declension nouns which end in 'us'
 - 2nd declension nouns in disguise (puer, magister, vir, etc.)
 - 2nd declension neuter nouns (e.g. templum, verbum etc.)
 - 3rd declension nouns (the ones which do not end in 'a' or 'us')
 - 3rd declension neuter nouns
 - nominative case (singular and plural, 1st and 2nd declension)
 - accusative case (singular and plural, 1st and 2nd declension)
 - genitive case (singular and plural, 1st and 2nd declension)
 - dative case (singular and plural, 1st and 2nd declension)
 - ablative case (singular and plural, 1st and 2nd declension)
 - prepositions with the accusative case
 - prepositions with the ablative case
 - 1st conjugation verbs
 - 2nd conjugation verbs
 - 3rd conjugation verbs
 - 4th conjugation verbs
 - infinitives
 - principal parts of verbs
 - Time expressions (i) 'time how long' using the accusative case
 - Time expressions (ii) 'time when' using the ablative case

- Adjectives and how adjectives agree with the nouns they describe
- Direct commands
- vocative case of nouns
- time adverbs
- direct questions
- personal pronouns and possessive adjectives (ego, tu, meus, tuus)

Component 2 - Literature (30%)

- Resources to use to revise: (i) printed [text booklet](#) from the exam board (ii) exercise book with translation and notes of the literature passages/poems; (iii) [website Component 2 page](#); (iv) [sources/pictures](#) to back up what you say about the countryside from the passages/poems.
- Content to revise:
 - [Cicero text](#) - learn the translation and the [notes](#) to the passage so that you could pick out, quote and translate points to answer questions about the countryside vs the city;
 - [Horace text 1 'The Pleasures of Country Living'](#) - learn the translation and the notes to the passage so that you could pick out, quote and translate points to answer questions about the countryside vs the city;
 - [Horace text 2 'The Changing Face of the Countryside'](#) - learn the [translation](#) and the [notes](#) to the passage so that you could pick out, quote and translate points to answer questions about the countryside vs the city;
 - [sources/pictures](#) to back up what you say about the countryside from the passages/poems.
 - 16 mark question practice guide in your exercise books

Component 3 - Civilisation (20%)

- Resources to use to revise: (i) printed [source booklet](#) from the exam board; (ii) exercise book with study notes and source notes; (iii) [website](#) Component 3 page with the notes to each topic and powerpoints and videos to go with these
- 12 mark question practice guide in your exercise books

Topic list for Component 3:

- (1) Roman men (typical day; paterfamilias; patrons and clients);
- (2) Roman women (matronae; expectations; typical day);
- (3) Slaves (becoming a slave; jobs of slaves; how slaves were freed);
- (4) Childbirth (statistics, midwives, divine and natural help);
- (5) Babies (Romulus and Remus exposure story, exposure and caring for babies, dies lustricus, boys vs girls);
- (6) Education (boys' education, girls' education);
- (7) Clothing of Roman men and women (tunica, types of toga, stola).

Travel and Tourism – Mr. Alex

You will be sitting one exam paper that is 1 hour 30 minutes long. This will cover the topics below:

- Features and appeals of different destinations
- Organisations involved in the development and management of destinations
- Factors affecting tourism development and management
- Managing destinations sustainably
- Economic, environmental and sociocultural impacts of travel and tourism
- Role of tourism organisations
- How do travel and tourism organisations work together
- Different types of transport and their appeal
- Sustainable transport and travel