

REVISION TOPICS – YEAR 9

Biology

B1 Key Concepts in Biology

B2 Cells and Control

Students should refer to the yellow specification booklet they were provided with at the start of the year to identify all information contained within each of the GCSE topics mentioned above.

Chemistry

Year 9 have started GCSE Chemistry (Edexcel 1-9). The topics examinable in the End of Year exam are:

- Atomic structure
- Periodic table & balancing equations
- Writing formula, atmosphere & climate change
- Obtaining and using metals
- Acids

These relate to the following parts of the specification: 1.1-1.20, 6.1-6.16, 0.1-0.3, 0.6, 8.18-8.26, 4.1-4.12, 3.1-3.21
Key concepts introduced in Year 7 and 8 are also examinable. These include writing word equations, safety, carrying out experiments and separation techniques.

Classical Civilisation

You will be examined on two topics: Sparta and Athens

For Sparta

- Geography and location of Sparta and how that affected its development
- Lyncourgos' reforms – what they were and why / how they were intended to shape Sparta
- Structure of society – different classes / categories in Sparta
- Spartan government
- Education system / agoge – what it was, how it worked and why it was set up this way
- Life for men and women in Sparta
- Military
- Persian Wars (including Ionian Revolt, Battle of Marathon, Battle of Thermopylae)

For Athens:

- The oikos - design, rooms and uses, what we can learn about life and beliefs from the style of the oikos
- Kyrios - the role, expectations and life of a man
- Kyria - the role, expectations and life of a woman
- Symposia - function, purpose, format
- Education - different stages of education - what they learnt, when and why.
- The gods and religion - how they worshipped and honoured the gods
- Slavery - what life was like, what jobs they did

English

Shakespeare

Students are exploring the Shakespeare play *The Merchant of Venice*. The exam will consist of one extract question which students will need to consider critically using their knowledge of language and its effects. They should prepare a thorough knowledge of the key scenes given by their teacher and learn a range of quotations for use in their final exam. They should choose key quotations from the extract and use learnt quotations from elsewhere in the play, considering the theme presented in the question and presenting a strong literary argument. They should use the PQA structure to explore the effects of Shakespeare's choices closely and should link to key historical context using a critical academic register.

French

- Personal information
- Family
- Relationships
- Descriptions
- Internet
- Paris
- Travelling by Metro
- Hobbies
- Talking about films and books
- School
- Jobs
- Weather
- Grammar - Reflexive verbs, Perfect tense, Imperfect tense, Future tense

Geography

- Cold environments
- Hot Environments
- Climate change
- Emerging economies - India

These are the general topics that will be examined, but please note that more detailed guidance will be given closer to the exams.

German

Students should revise the topics below for the End of Year exam. Students can access the ZOOM German 2 textbook on Kerboodle (institution code: SO4) and all vocabulary lists on Quizlet:

<https://quizlet.com/MrsJavaid/folders/zoom-2/sets>

	Contexts	Grammar
Unit 0 Hallo!	<ul style="list-style-type: none"> • Describe your and other people's appearance and personality • Family relationships and helping at home • Talk about what you've done recently 	<ul style="list-style-type: none"> • Adjective endings (accusative, no article) • <i>weil</i> • Present tense • Perfect tense with <i>haben</i> and <i>sein</i>
Unit 1A Mein Tag	<ul style="list-style-type: none"> • Daily routine • Talk about what you did yesterday, yesterday evening and last weekend • Opinions of activities 	<ul style="list-style-type: none"> • Separable and reflexive verbs • Perfect tense with <i>haben</i> and <i>sein</i> • Separable verbs in the perfect tense • Imperfect tense (<i>war</i>)
Unit 1B Wir feiern!	<ul style="list-style-type: none"> • National holidays and festivals • Organise a party; say what guests can do at the party • Accept or decline an invitation; give excuses 	<ul style="list-style-type: none"> • Dates and endings • Modal verbs: <i>dürfen, können, müssen, sollen</i> and <i>wollen</i> • Imperfect tense (<i>ich wollte, ich hatte, es war, es gab</i>) and perfect tense • Question words
Unit 2A Die Medien	<ul style="list-style-type: none"> • TV viewing habits • Forms of media; compare old and new media • Favourite music, singers and bands • Film and film reviews • Reading habits 	<ul style="list-style-type: none"> • Possessive adjectives (<i>mein, dein, sein, ihr</i>) • Present tense and imperfect tense (<i>war, waren</i>) • <i>dieser/diese/dieses</i> and <i>welcher?/welche?/welches?</i> • Perfect tense and imperfect tense (<i>war, waren</i>)
Unit 2B Hobbys	<ul style="list-style-type: none"> • Talk about your favourite hobby and why you like it • Talk about what hobbies you do in different kinds of weather • Talk about what you will do next weekend • Other unusual hobbies 	<ul style="list-style-type: none"> • Present tense of regular and irregular verbs • Adjective endings (nominative and accusative with definite and indefinite article) • Word order with <i>wenn</i> • Future tense
Unit 3A Gesundes Leben	<ul style="list-style-type: none"> • Parts of the body • Talk about illness and injuries; say how long you have been ill and how it happened • Talk about what sports you do to keep fit, how often and why • Healthy eating and lifestyle 	<ul style="list-style-type: none"> • Possessive adjectives (<i>mein, dein, sein, ihr</i>) • Noun plurals • <i>seit</i> + present tense • Dative pronouns (<i>mir, dir</i>) • <i>um ... zu ...</i> (in order to ...) • The imperative (<i>du</i> and <i>Sie</i>) • Infinitive structures (<i>zu</i> + infinitive)

Unit 4A Die Umwelt	<ul style="list-style-type: none"> • Describe where you live; give your opinion of it • Ways to travel • Ways to be environmentally friendly • Environmental problems and solutions 	<ul style="list-style-type: none"> • <i>weil</i> + correct word order • Dative case (<i>mit</i> and <i>zu</i> + definite article) • Compound nouns • Comparatives and superlatives • Present, past and future tenses
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History

Please revise the big enquiry questions you have been studying:

- Who shot JFK?
- Why is 1750-1900 seen as Britain's age of transformation?
- What are the controversies of World War I?
- Why is it important to remember the Holocaust?

Latin

All work covered to date in Cambridge Latin Course books 1 – 3. This will include but is not limited to:

- all vocabulary from the checklists at the end of the chapters
- tenses and persons of verbs (including irregular verbs): indicative present, imperfect, perfect, pluperfect; subjunctive imperfect and pluperfect.
- irregular verbs: *sum*, *possum*, *volo*, *nolo* *fero*, *eo*, *capio* (all forms)
- cases of nouns: nominative, accusative, genitive, dative of 1st, 2nd and 3rd declensions (including neuter nouns)
- adjectives and agreement with nouns
- participles – perfect passive, perfect active and present active
- imperatives (including the use of *noli* and *nolite*)

You will be required to translate from Latin into English, to answer comprehension questions on a Latin passage (answers in English), and to answer grammar questions. You may also be required to give and explain English derivations from Latin words.

Maths

Content – Half Term 1	Topics
Algebra 1	Multiply brackets with coefficients Expand the product of two or more brackets Factorise algebraic expressions taking a single factor out Factorise a quadratic expression using different techniques including the difference of two squares Solve a quadratic equation using the method of factorising Solve equations with fraction coefficients
Percentages	Increase and decrease values using a percentage multiplier Rearrange the percentage multiplier equation to find the original value and percentage increase. Repeatedly increase by difference percentage multipliers Apply the ideas of simple interest

Content – Half Term 2	Topics
Angles in Polygons	Calculate the total sum of angles in an n-sided polygon Know the sum of external angles in an n-sided polygon Use these facts in problems Work out whether certain shapes will tessellate or group of shapes semi-tessellate
Graphs 1	Plot a scatter graph and draw a line of best fit Evaluate the correlation of a scatter graph
Data	Use properties of two tables to solve problems using them Estimate a mean from grouped data Graph a cumulative frequency diagram from a grouped frequency table

Graphs 2	Use time graphs for distance and speed Understand the use of exponential graphs in context
Pythagoras	Calculate the hypotenuse of a right-angled triangle Calculate other sides of a right-angled triangle Use right-angled triangles in contextual problems

Content – Half Term 3	Topics
Standard Form	Express large and small numbers in standard form using the relevant power of 10 Perform four operations on numbers in standard form
Estimation and Bounds	Find upper and lower bounds and discrete and continuous values Calculate an error interval between upper and lower bounds Use bounds in contextual problems
Surds	Express a square root in terms of a surd Simplify a surd Add/subtract and multiply surds

Content – Half Term 4	Topics
Algebra 2	Solve simultaneous linear equations algebraically Solve any simultaneous equation graphically
Measures	Apply and rearrange compounds units Know the formulae for Speed, Density, Pressure and flow
Trigonometry	Know SOH CAH TOA Apply SOH CAH TOA to find missing sides of a triangle Apply SOH CAH TOA to find missing angles of a triangle

Content – Half Term 5	Topics
Algebraic Fractions	Simplify algebraic fractions but expressing them as factors Multiply and divide algebraic fractions Add and subtract algebraic fractions
Proof	Represent integers and an algebraic expression Use algebraic expressions to prove results given in the question Show algebraic identities
Prime Factors, HCF, LCM	Express positive integers as a product of prime numbers Do the prime factorisation to get the HCF and LCM of a number
Sequences	Express a linear sequence as an expression in terms of n

Physics

Topic 1: Electricity – current, potential difference and resistance in series and parallel circuits

Topic 2: Waves – wave properties, sound waves and the ear, ultrasound, infrasound (seismic waves)

Topic 3: Energy - energy transfers, power and efficiency, energy resources and generating electricity

Topic 4: Optics- reflection, refraction, total internal reflection, ray diagrams, converging and diverging lenses

Topic 5: Moments – levers and gears

Spanish

What to revise for listening and reading?

Anything that we have done this year may come up. Use quizlet, teams and your notes and revise vocab on these topics:

- Food
- Holidays (countries, transport, activities)
- Latinoamerica
- Media, cinema and TV
- Fashion
- Opinions

What to revise for writing?

The writing paper has 3 parts:

Part 1. 90 word writing task. You will need to show that you can answer the bullet points using varied vocabulary, opinions, connectives, verbs in present, past and future and some complex language.

Part 2. You will have to translate some sentences into English and into Spanish on any topic covered this year.

Part 3. You will have to conjugate 3 regular verbs: one in present, one in preterite and one in immediate future. Relearn the endings for these verbs, you can use theses links: present [link](#), preterite [link](#), immediate future [link](#).