

YEAR 9 REVISION TOPICS 2021

BIOLOGY

B1 - Key Concepts in Biology

B2 - Cells and Control

B3 - Genetics (up to and including structure of DNA)

You should refer to the yellow specification booklet you 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 and balancing equations
- Writing formula, atmosphere and 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 You have a copy of the specification in your exercise books.

Key concepts introduced in Year 7 and 8 are also examinable. These include writing word equations, safety, carrying out experiments and separation techniques.

ENGLISH

One exam: 1 hour 15 minutes

Shakespeare

You will be examined on your studied Shakespearean play (either 'Much Ado about Nothing' or 'The Merchant of Venice'). The exam will be a closed-text exam and therefore, you will need to learn quotations from across the text which represent both key characters and themes (as advised by your teacher). The exam will be ONE essay which either requires you to argue about a character's significance/change/role in the play OR a thematic question and the theme's significance in the play. The exam question will be worded like the GCSE AQA Literature Paper 1, in order to help prepare you for next year; this means there will be a printed extract in the exam to accompany the essay question.

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

- Rocks and Energy Issues
- Hot Environments
- Global Climate Change
- Emerging Economies

Detailed revision lists will be given out closer to the exams

GERMAN

All work covered to date in this academic year. Topics tested are:

- Daily routine
- Festivals and celebrations
- The media and TV
- Hobbies
- Health and fitness

Grammar includes the present and the perfect tense, adjectival endings, word order, the use of the accusative and dative case, possessive adjectives, separable, reflexive and modal verbs, telling the date, sein + present tense, the um...zu structure.

You can revise by going over units 1A/B, 2A/B and 3A in the Zoom textbook on Kerboodle. You have been given the login.

HISTORY

Who Shot JFK?

What is the official verdict on Kennedy's shooting and how reliable is it?

Did Oswald have a motive for killing Kennedy?

Could Oswald have killed Kennedy?

What did the American people think of Kennedy?

What were Kennedy's connections to power groups?

What does the medical evidence reveal about the killing?

Is the grassy knoll theory supported by photographic evidence?

Why is 1750-1900 seen as Britain's age of transformation?

How did Britain change between 1750-1900?

How can HMS Victory and HMS Warrior help us understand these changes?

How should the British Empire which developed in this period be judged?

What caused the industrial revolution?

What was the most significant development in the Industrial Revolution?

What were the consequences of the Industrial Revolution for everyday lives?

What are the controversies of World War I?

Why did World War One break out?

Which battle was the most significant in World War One?

How significant was the contribution played by the British Empire in World War One?

How well were ordinary soldiers looked after in the war?

Why is it important to remember the Holocaust?

What was the holocaust and who were its victims?

How did Nazi persecution of the Jews develop in the 1930s?

What was life like in the Ghettos?

How did Nazi policy towards the Jews evolve to mass murder in World War Two?

What individuals and institutions lay behind 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
- Verbs: Tenses and persons of verbs (including irregular verbs): indicative present, imperfect, perfect, 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

Percentages Simple Interest <ul style="list-style-type: none"> • % Increase and Decrease • Reverse % • Repeated % change 	Applications of Graphs <ul style="list-style-type: none"> • Time Graphs • Exponential Growth graphs 	Decimal Numbers <ul style="list-style-type: none"> • Powers of 10 • Standard Form including X and / • Upper and Lower Bounds 	Trigonometry <ul style="list-style-type: none"> • Finding unknown side • Finding unknown angle
Algebra – Equations and Formula <ul style="list-style-type: none"> • Multiplying Brackets • Factorising • Expressions with several variables • Equations with Fractions 	Pythagoras <ul style="list-style-type: none"> • Using Pythagoras • Converse of Pythagoras 	Cylinders <ul style="list-style-type: none"> • Surface Area and Volume • Composite Shapes 	Indices & Surds <ul style="list-style-type: none"> • Indices laws • Surds
Polygons <ul style="list-style-type: none"> • Properties • Interior and Exterior Angles • Tessellations 	Fractions, Ratio and Proportion <ul style="list-style-type: none"> • Fractions and Mixed Numbers – 4 operations • Algebraic Fractions – 4 operations • Best buys • Simplifying ratios • Sharing amounts in ratios 	Solving Equations Graphically <ul style="list-style-type: none"> • Recap $y = mx + c$ • $ax + by = c$ • Simultaneous Equations graphically • Solving quadratics and cubics graphically 	Basic Number <ul style="list-style-type: none"> • Problem Solving • Decimals x / • Approximations • Factors, multiples, powers and roots • Primes, HCF, LCM • Negative Numbers
Using Data <ul style="list-style-type: none"> • Scatter Graphs and Correlation • Two Way Tables • Estimating Mean from grouped data • Cumulative Frequency 	Quadratics <ul style="list-style-type: none"> • Expanding 2 brackets • More than 2 brackets • Factorising Quadratics • Difference of 2 squares 	Compound Measures <ul style="list-style-type: none"> • Speed • More compound units • Unit Costs • Include Pressure = force/area 	Number and Sequences <ul style="list-style-type: none"> • Patterns in numbers • Sequences • Nth term linear • Nth term – quadratic

PHYSICS

Topic 1: Current, voltage and resistance in series and parallel circuits

Topic 2: Sound waves, ultrasound and infrasound

Topic 3: Energy transfers, efficiency, power and energy resources

Topic 4: Refraction, lenses and ray diagrams

Topic 5: Moments, levers and gears

SPANISH

Topics for revision:

- Free time
- Sports
- Food
- Transport
- Holidays
- TV and film
- Preterite / Present / Immediate Future verb conjugations
- Adjectival agreements

Comparative structures