

YEAR 9 - REVISION TOPICS

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 bulleted below, Details of these topics are in the GCSE booklet given out at the beginning of the year but also on the Google Chemistry site accessible via the QR code:



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

These topics 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

War and Warfare:

- The Iliad: Books 1, 3, 4, 9, 16 and 22 with particular focus on
 - the actions, behaviour and personalities of key characters such as Hector, Achilles, Patroclus, and Agamemnon.
 - the role of the gods
 - the cost of war
 - being a hero
- Sparta
 - how Sparta was governed
 - the education system and how it raised children to be warriors
 - the role of men and women in society
 - helots (Spartan slaves)

Amarantus and Life in Pompeii:

- houses and their design
- what it was like to live in Pompeii (eg. the streets of Pompeii and facilities)
- social status and the pyramid of power
- dinner parties and their link to social status (includes Power Seating)
- slavery and manumission
- festivals such as the Saturnalia
- public and private religion
- entertainment (including large scale such as gladiator and small scale such as games etc in the bar)
- the use of graffiti as evidence
- medicine and the Humours of the Body
- To be confirmed: death and the underworld, elections and local government

ENGLISH

The Merchant of Venice

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.

For more information, please refer to the department website:

<https://sites.google.com/rgshw.com/rgs-english/ks3/year-9>

FRENCH

Anything we have done this year may come up. You should revise the topics below for the end of year exam. You can access the textbook and vocabulary lists on ActiveLearn, and vocab is also on Quizlet. You should also look back at the notes in your exercise book and can revise grammar and practise reading and listening on languagenut.

Unit	Vocabulary	Grammar
Dynamo 3 module 1	point de depart , mots essentiels , unit 1 , unit 2 , unit 3 , unit 4 ,	aimer, adorer, détester + noun or verb reflexive verbs perfect tense aller + infinitive negatives in future and perfect
module 2	point de depart , unit 1 , unit 2 , unit 3 , unit 4 ,	pour+infinitive devoir, pouvoir, vouloir jobs masculine and feminine nouns the simple future the simple future of avoir and être
module 3	point de depart , unit 1 , unit 2 , unit 3 , unit 4 ,	imperfect tense
module 4 - as far as 4.2	point de depart , mots essentiels , unit 1 , unit 2 ,	plus que and moins que negatives superlatives

GEOGRAPHY

Please use the checklist below to direct your revision:

- Topic 1 - Cold environments
 - Location and characteristics of glaciated landscapes.
 - Glacial erosion processes.
 - Characteristics and formation of glacial erosional landforms.
 - How and why glacier deposit material.
 - Features created by glacial deposition.
 - Human activity in glaciated landscapes in the UK, including the Lake District.
- Topic 2 - The Indian Subcontinent: Physical Geography, Tourism and Approaches to Development
 - Countries and capital cities in the Indian subcontinent
 - Physical geography of the Indian subcontinent including topography and climate.
 - Interpretation of climate graphs.

- o Positive and negative impacts of tourism in the Indian subcontinent.
- o Indicators of development and their definitions.
- o Top-down and bottom-up approaches to development in India.
- Topic 3 - Hazardous Earth
 - o Structure of earth
 - o How convection currents explain the movement of tectonic plates
 - o Processes and features of divergent, convergent, collision and conservative plate boundaries
 - o Characteristics and causes of different volcano types (shield vs composite/stratovolcano)
 - o Case studies of the causes, impacts and management of explosive (E-15) and effusive (Mt Kilauea) eruptions.
 - o Key terms associated with earthquake hazards.
 - o The formation of tsunamis
 - o Long-term management strategies for earthquake hazards.
 - o Case studies of the causes, impacts and management of earthquakes in a developing (Haiti) and developed (New Zealand) country.
- Topic 4 - Hot Environments
 - o Names and locations of the world's major hot deserts.
 - o Reasons for the formation of hot deserts.
 - o Plant and animal adaptations in hot desert environments.
 - o Desertification, including its causes, impacts and strategies of reducing desertification.

The end of year exam is made up of exam-style questions, many of which you have already answered on end of topic tests.

GERMAN

Anything we have done this year may come up. You can access the Echt2 textbook on Kerboodle (institution code: so4) and all vocabulary lists on Quizlet: <https://quizlet.com/class/26643765> You should also look back at the notes in your exercise book and can revise grammar and practise reading and listening on languagenut and languagesonline.

	Vocabulary	Grammar
In Urlaub Echt 2 Unit 1	<ul style="list-style-type: none"> ● Countries ● Accommodation ● Holiday activities ● transport 	<ul style="list-style-type: none"> ● using man kann/soll/muss +infinitive ● perfect tense with haben and sein ● opinions in the past with es war ● using 3 time frames together (recap present and future)
Feste (not in textbook, use your notes in your book!)	<ul style="list-style-type: none"> ● National holidays and festivals ● giving opinions and reasons ● festivals verbs and adjectives 	<ul style="list-style-type: none"> ● Dates and endings ● using conjunctions
Mein Zuhause Echt 2 Unit 2	<ul style="list-style-type: none"> ● types of house and location ● rooms in the house ● bedroom furniture ● places in town ● directions 	<ul style="list-style-type: none"> ● dative after prepositions ● es gibt+accusative ● consolidating all 3 time frames
Das Alltagsleben Echt 2 Unit 3 (and 2.1)	<ul style="list-style-type: none"> ● Daily routine ● household chores ● healthy habits ● making plans/excuses 	<ul style="list-style-type: none"> ● Separable and reflexive verbs ● modal verbs

HISTORY

Please revise the big enquiry questions you have been studying since September:

- Who shot JFK?
- Why is 1750-1900 seen as Britain's age of transformation?
- What are the controversies of World War I?
- What are the big debates of World War II?

LATIN

All work covered so far in Suburani chapters 1 - 22 This includes:

- all vocabulary lists from chapters 1 - 22 (there will also usually be a derivation question in the exam so make sure you know what a derivation is)
- all grammar including:

1. Verbs:

- present tense
- imperfect tense
- perfect tense
- pluperfect tense
- future tense
- irregular verbs - esse, posse, velle, nolle
- compounds of fero, ferre, tuli
- the differences between active and passive voice verbs (present, imperfect, perfect, pluperfect, infinitive)
- deponent verbs
- infinitive forms

2. Nouns:

- nominative
- accusative
- genitive
- dative
- ablative
- vocative
- different genders (masculine, feminine and neuter)
- different declensions (1st, 2nd, 3rd)

3. Adjectives

- agreement with nouns (different declension adjectives)
- degrees of comparison (positive, comparative, superlative) and the use of 'quam'

4. Relative Pronouns and Relative Clauses

5. Use of -ne and -que

6. Prepositions including time and place

7. Adverbs

8. Imperatives

9. Indirect Statements

10. This and That including:

- hic haec hoc
- ille illa illud
- is ea id

11. Participles: Present and Perfect (passive)

12. Personal Pronouns

MATHS

Half Term 1	
Algebraic Manipulation	Single bracket expansion with Negative Coefficients
	Factorising Algebraic Expressions
	Expanding the Product of Two and more Brackets
	Factorising monic Quadratic Expressions
	Factorising difference of two squares
	Solving monic Quadratic Equations (using Factorising)
	Changing the Subject of an Equation
Angles	Angles of Polygons
	Problem solving using Polygons
	Bearings
Half Term 2	
Percentages	Percentage Increase/Decrease using multipliers
	Calculating the original value
	Repeated Percentage Change
	Simple and Compound Interest
Compound Units	Speed / Density / Pressure
	Flow and Unit Cost
Real-world Graphs	Time Graphs
	Exponential Graphs
	Misleading Graphs
Limits of Accuracy	Truncation
	Bounds and Error Intervals
	Problems involving Bounds and Error Intervals
Congruency	Congruency within Triangles
Surds	Simplifying Surds
Half Term 3	
Surds (cont.)	Adding and Subtracting Surds
	Multiplying and Expanding Brackets with Surds
Pythagoras	Pythagoras Theorem and Problem Solving
Trigonometry	Trigonometry - Ratios of Right Angled Triangles
	Trigonometry -Find sides
	Trigonometry - Find angles
	Exact Trig Values
Simultaneous Equations	Solving Linear Equations by Elimination
	Solving Equations by Substitution
Half Term 4	
Simultaneous Equations (cont.)	Solving Simultaneous Equations Graphically
Number	Prime Factorisation
	HCF and LCM using Prime Factorisation
Statistical Tables and Graphs	Mean of Frequency Tables (Ungrouped and Grouped)
	Two Way Tables
	Scatter Graphs, Correlation and Lines of Best Fit
	Cumulative Frequency Diagrams

Half Term 5	
Algebraic Fractions	Recap Fraction operations
	Simplifying Algebraic Fractions
	Multiplying and Dividing Algebraic Fractions
	Adding and Subtracting Algebraic Fractions
Proof	Algebraic Proof
	Algebraic Identities
Standard Form	Powers of 10
	Arithmetic with Standard Form (all four operations)

PHYSICS

Waves	Basic wave properties (e.g. frequency, amplitude, wavelength, period, transverse vs longitudinal etc)
	The wave speed equation
	Core practical: calculating the speed of a wave on water and the speed of sound in a metal bar)
	Sound, the ear and ultrasound
	Echolocation and uses of ultrasound
	Seismic waves and how we used them to study the structure of the Earth
Circuits	Current, charge and voltage
	Calculations involving current, charge, voltage and energy
	Resistance and Ohm's Law
	How resistance combines in series and parallel
	Core practical: calculating the total resistance in series and parallel circuits
Energy	Energy stores and transfers
	Calculating GPE and KE
	Conservation of energy and how it applies to calculations
	Work done and how forces can transfer energy
	Power
	Efficiency
	Renewable and non-renewable energy resources
Moments	Calculating moments

	Lenses
	Gears
Optics	Reflection and mirror images
	Refraction
	Core practical: investigating the refraction of light through a perspex block
	Total internal reflection
	Convex and concave lenses
	Lens diagrams

SPANISH

Anything we have done this year may come up. You should revise the topics below for the end of year exam. You can access the textbook and vocabulary lists on Kerboodle (institution code: SO4). You should also look back at the notes in your exercise book and can revise grammar and practise reading and listening on languagesonline and languagenut.

Unit	Vocabulary	Grammar
Food	<ul style="list-style-type: none"> ● Food (1.1) ● opinions (1.2) ● ordering in a restaurant (1.3) ● healthy diet (1.4) 	<ul style="list-style-type: none"> ● adjective agreements ● plurals of verbs like <i>gustar</i> (when to use <i>me gusta</i> vs. <i>me gustan</i>) ● present tense verb endings for regular, stem-changing and irregular verbs <i>ir, ser</i> and <i>hacer</i>
Holidays	<ul style="list-style-type: none"> ● countries (2.1) ● methods of transport (2.1) ● activities (2.2, 2.3 & 2.4) 	<ul style="list-style-type: none"> ● preterite tense regular verb endings ● preterite tense of <i>ir, hacer</i> and <i>ser</i> ● question words
Latin America	<ul style="list-style-type: none"> ● language to describe countries ● music (3.4) 	<ul style="list-style-type: none"> ● impersonal <i>se</i> (e.g. <i>en Colombia se comen arepas tradicionalmente</i>)
Interests	<ul style="list-style-type: none"> ● Internet use (3.1) ● film & TV (3.2 & 3.3) 	<ul style="list-style-type: none"> ● comparatives (<i>más...que</i>, etc.)
Fashion	<ul style="list-style-type: none"> ● clothing (4.1) ● describing clothes (4.2) ● shop names (4.3) 	<ul style="list-style-type: none"> ● near future tense ● demonstrative adjectives