

YEAR 8 REVISION TOPICS

Biology

FITNESS AND HEALTH
<ul style="list-style-type: none">• Relate fitness systems to the human body
<ul style="list-style-type: none">• Fitness is different for different individuals
<ul style="list-style-type: none">• Balanced diet requires carbohydrates, fats, proteins, vitamins, minerals and water in the correct proportions
<ul style="list-style-type: none">• What the components of a balanced diet are used for in the body
<ul style="list-style-type: none">• Different people have different energy requirements
<ul style="list-style-type: none">• The effects of alcohol on the functioning of the body
<ul style="list-style-type: none">• Different classes of drug
<ul style="list-style-type: none">• The effect of different drugs on the functioning of the body
HEART AND CIRCULATION
<ul style="list-style-type: none">• The need for a circulatory system in animals
<ul style="list-style-type: none">• Structure and function of arteries, veins and capillaries
<ul style="list-style-type: none">• The structure of the mammalian heart and labels
<ul style="list-style-type: none">• Circulation of blood through the heart
<ul style="list-style-type: none">• Identification of the right and left side of heart
BONES AND JOINTS
<ul style="list-style-type: none">• How simple joint function
<ul style="list-style-type: none">• Structure of a synovial joint
<ul style="list-style-type: none">• Names of the bones of the forearm
<ul style="list-style-type: none">• Antagonistic muscles
THE DIGESTIVE SYSTEM
<ul style="list-style-type: none">• Structure of the human gut
<ul style="list-style-type: none">• Role of the different regions of the gut
<ul style="list-style-type: none">• Breakdown of the three main food groups
<ul style="list-style-type: none">• Peristalsis
<ul style="list-style-type: none">• Structure of a villus
<ul style="list-style-type: none">• Absorption in the small intestine
<ul style="list-style-type: none">• Model gut experiment
<ul style="list-style-type: none">• Enzymes and digestion
<ul style="list-style-type: none">• The conditions required for enzymes to work efficiently
THE REPRODUCTIVE SYSTEM
<ul style="list-style-type: none">• Structure and function of the male reproductive organs
<ul style="list-style-type: none">• Structure and function of the female reproductive organs
<ul style="list-style-type: none">• Fertilisation

Chemistry

The following topics are to be assessed and additional information on each can be found in the RGS Chemistry specification as shared with you via TEAMS/Onenote and on Sharepoint:

- pH and indicators
- acids and neutralisation
- patterns of reactivity
- fuels and global warming
- carrying out an investigation (you did the denture tablet investigation as an example)

Key concepts introduced in Year 7 are examinable. This includes writing word equations, safety, carrying out experiments and separation techniques.

Classical Civilisation

Mrs Webber's section:

- Everything covered in Chapters 1, 7, 8, 10, 12, 13, 14, 15 and 16 of the textbook - Tales of the Greek Heroes by Roger Lancelyn Green.
- Key elements of a Greek myth and qualities of the Greek heroes we have studied

Mrs Dicks' section:

- Greek History - key periods, Minoans, Mycenaeans (not Linear B), Archaic Greece
- Athens: politics (includes different political systems), society, democracy, legal system, The Wasps, Greek theatre, The Bacchae.

English

The Pearl

Students are revisiting *The Pearl* this half term, focusing on closely analysing key extracts in preparation for their End of Year exam. 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 choose key quotations from the extract, considering the theme presented in the question, and present a strong literary argument. They should use the PQA structure to explore the effects of Steinbeck's choices closely and should link to key historical context using a critical academic register.

French

- Food
- Shops
- Quantities
- Countries
- Transport
- School
- Descriptions
- Housework
- Daily routine,
- Grammar - IR verbs, RE verbs, Aller, Pouvoir, Vouloir, Apprendre, Comprendre, Reflexive verbs, Perfect tense

Geography

- Geology and energy use in the UK
- Hydrology and Rivers
- Europe and Population Issues
- Oceans

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. They can access the **ZOOM German 1** textbook and vocabulary lists on Kerboodle (institution code: SO4).

Los geht's!	<ul style="list-style-type: none"> Greetings Introduction to Germany and German-speaking countries; names of towns and countries 	<ul style="list-style-type: none"> <i>Das ist ...</i> Gender: <i>ein, eine</i>
Unit 0 Hallo!	<ul style="list-style-type: none"> Greetings; introduce yourself and spell your name Numbers up to 31; months Say your age and birthday Say which country you're from, where you live and what languages you speak 	<ul style="list-style-type: none"> The German alphabet <i>Ich bin, du bist; ich habe, du hast</i> Word order in simple sentences Ordinal numbers Extra Plus: Masc. and fem. forms of nationalities
Unit 1A Meine Familie	<ul style="list-style-type: none"> Family, brothers and sisters Pets Colours Descriptions of self and others 	<ul style="list-style-type: none"> <i>Mein(e), dein(e)</i> Ich habe (k)ein(e)(n) ... Er, sie, es Noun plurals Ich bin, du bist, er/sie/es ist + adjectives
Unit 1B Meine Schule	<ul style="list-style-type: none"> Classroom objects; items in a school bag Opinions of school subjects Ask and say what time it is; talk about school timetables Days of the week 	<ul style="list-style-type: none"> Gender: der, die, das Ich habe (k)ein(e)(n) ... Ich habe, du hast, er/sie hat, wir <i>haben</i> "Verb second" word order
Unit 2A Freizeit und Hobbys	<ul style="list-style-type: none"> Sports and musical instruments Hobbies: talk about what you like doing and prefer doing, and what your favourite hobby is Say how often you do something 	<ul style="list-style-type: none"> Gern, nicht gern, lieber, am liebsten Present tense of a regular verb (spielen) and irregular verbs (fahren, lesen, sehen) <i>Denn</i> How to say "them" (<i>sie</i>) Word order with time phrases
Unit 2B Wo wohnst du?	<ul style="list-style-type: none"> Countries, regions and the weather Types of neighbourhood; types of houses; rooms in a house or flat; bedroom descriptions Numbers up to 100 	<ul style="list-style-type: none"> Present tense of <i>wohnen</i> Prepositions + dative (einem/einer/einem, dem/der/dem) Es gibt + accusative (einen/eine/ ein)
Unit 3A Guten Appetit!	<ul style="list-style-type: none"> Food: likes, dislikes and what you eat for different meals Order a snack Numbers up to 1000; quantities and packaging; food shopping Healthy eating 	<ul style="list-style-type: none"> "Verb second" word order Ich möchte + noun Singular and plural nouns (units of quantity) Man soll + infinitive Ich esse + kein(e)(n) ...

History

Please revise the big enquiry questions you have been studying since September 2021:

- How accurate was Shakespeare's interpretation of Richard III?
- Why was the Tudor period a time of religious turmoil?
- How far was King Charles I the worst English monarch?
- What can three locations reveal about the impact of the Transatlantic Slave Trade: Akan Kingdoms, Barbados, Bristol?

Latin

All work covered to date in Cambridge Latin Course books 1 – 2. This will include but is not limited to:

- vocabulary from the checklists at the end of each chapter
- nouns cases: nominative, accusative, dative
- verbs: present, imperfect, perfect, infinitives including irregular verbs (sum, volo, nolo, possum)
- present tense of irregular verbs

Maths

Number revision <input type="checkbox"/> Negative numbers <input type="checkbox"/> Powers and Roots <input type="checkbox"/> Prime Factors <input type="checkbox"/> HCF and LCM <input type="checkbox"/> Powers of 10 <input type="checkbox"/> Significant Figures <input type="checkbox"/> Standard Form	Algebra <input type="checkbox"/> Equations with Brackets <input type="checkbox"/> Equations with variables on both sides <input type="checkbox"/> More Complex Equations <input type="checkbox"/> Rearranging Formula <input type="checkbox"/> Trial and improvement	Sequences <input type="checkbox"/> Revise linear sequences, including finding the nth term <input type="checkbox"/> Recognise quadratics, cubics, quartics and quintics by differencing	Circles <input type="checkbox"/> The circumference of a circle <input type="checkbox"/> Formula for the circumference of a circle <input type="checkbox"/> Formula for the area of a circle
Area and Volume <input type="checkbox"/> Metric units for area and Volume <input type="checkbox"/> Surface Area of Prisms <input type="checkbox"/> Volume of Prisms <input type="checkbox"/> Circumference and area of a circle	Shape <input type="checkbox"/> Congruent shapes <input type="checkbox"/> Transformations including negative and fractional s.f <input type="checkbox"/> Combinations of transformations <input type="checkbox"/> Pythagoras' Theorem	Straight lines <input type="checkbox"/> Graphs from linear Equations <input type="checkbox"/> Gradients <input type="checkbox"/> Quadratic Graphs <input type="checkbox"/> real-life graphs <input type="checkbox"/> midpoints <input type="checkbox"/> Regions defined by inequalities	Interpreting Data <input type="checkbox"/> Graphs and Diagrams <input type="checkbox"/> Pie Charts <input type="checkbox"/> Scatter graphs and Correlation
Fractions, decimals and percentages <input type="checkbox"/> Revision of addition and subtraction of fractions <input type="checkbox"/> Multiplication and division <input type="checkbox"/> % increase/decrease/change <input type="checkbox"/> Know that a recurring decimal is a fraction	Probability <input type="checkbox"/> Mutually Exclusive and Exhaustive Events <input type="checkbox"/> Sample Space <input type="checkbox"/> Estimates of Probability Venn Diagrams	Comparing Data <input type="checkbox"/> Averages, including grouped data <input type="checkbox"/> Grouped Frequency Table <input type="checkbox"/> Comparing Data <input type="checkbox"/> Stem and leaf diagrams	Constructions <input type="checkbox"/> perpendicular bisector and angle bisector <input type="checkbox"/> The perpendicular from a point to the line <input type="checkbox"/> The perpendicular from a point on a line
Algebra <input type="checkbox"/> Algebraic Notation <input type="checkbox"/> Like Terms <input type="checkbox"/> Expanding Brackets <input type="checkbox"/> Index Notation	Ratio and Proportion <input type="checkbox"/> Ratio revision <input type="checkbox"/> Direct Proportion <input type="checkbox"/> Graphs and direct proportion <input type="checkbox"/> Inverse Proportion	Angles revision <input type="checkbox"/> Angle facts <input type="checkbox"/> Interior and exterior angles of polygons	Constructions and scale drawing

Physics

Topic	Content
LIGHT	Reflection & refraction ray diagrams
	Colour
HEAT TRANSFER	Energy types and transfers
	Particle model
	Conductions, convection and radiation
	Expansion and contraction
CIRCUITS 2: VOLTAGE	Voltage as energy carried by the charge
	Connecting voltmeters
	Voltage in series and parallel circuits
PRESSURE	Solid pressure
	Liquids & gases - pressure at depth
	Atmospheric pressure

Spanish

- Describing physical traits and personality
- Weather
- Home – Types of houses, locations and rooms
- Animals
- Sports – (With 'jugar al' and 'hacer')
- Free Time activities

You also need to revise: Regular Present Tense Endings, Ser, Tener, Jugar and Hacer / Adjectival and Gender agreements along with adverbs of frequency.