

YEAR 8 REVISION TOPICS 2019

BIOLOGY

FITNESS AND HEALTH

- Relate fitness systems to the human body
- Fitness is different for different individuals
- Balanced diet requires carbohydrates, fats, proteins, vitamins, minerals and water in the correct proportions
- What the components of a balanced diet are used for in the body
- Different people have different energy requirements
- The effects of alcohol on the functioning of the body
- Different classes of drug
- The effect of different drugs on the functioning of the body

HEART AND CIRCULATION

- The need for a circulatory system in animals
- Structure and function of arteries, veins and capillaries
- The structure of the mammalian heart and labels
- Circulation of blood through the heart
- Identification of the right and left side of the heart

BONES AND JOINTS

- How simple joint function
- Structure of a synovial joint
- Names of the bones of the forearm
- Antagonistic muscles

THE DIGESTIVE SYSTEM

- Structure of the human gut
- Role of the different regions of the gut
- Breakdown of the three main food groups
- Peristalsis
- Structure of a villus
- Absorption in the small intestine
- Model gut experiment
- Enzymes and digestion
- The conditions required for enzymes to work efficiently

THE REPRODUCTIVE SYSTEM

- The human life cycle
- The changes associated with puberty
- Structure and function of the male reproductive organs
- Structure and function of the female reproductive organs
- The menstrual cycle in a female
- Fertilization
- Development of a baby
- Birth and care of a baby

CHEMISTRY

The following topics are to be assessed and additional information on each can be found in the RGS Chemistry specification on the VLE/cloudbase:

- pH and indicators
- acids and neutralisation
- patterns of reactivity
- fuels and global warming
- rocks
- 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

All work covered to date; this will include but is not limited to:

Myths and Heroes:

- Myths, heroes and monsters (focusing on Heracles, Theseus, Perseus)
- Features of heroes and how they are represented in mythology
- The play, The Bacchae – events, plots, characters, message

History:

- How do we know what we know about the Greeks? (Understanding evidence)
- The Minoans
- The Mycenaeans (you do not have to learn the Linear B alphabet!), including the end of the Mycenaeans
- Dark Ages
- Archaic Era (you do not need to know the Classical Greek alphabet)
- Classical Era
- Hellenistic Era (if time)

ENGLISH

Novel

Y8 students will study a novel of their English teacher's choosing over the next half term. The exam will be a closed-text exam and therefore, students will need to learn quotations from across the text which represent both key characters and themes (as advised by their teacher). The exam will be ONE essay which either requires the student to argue about a character's significance/change/role in the novel OR a thematic question and the theme's significance in the novel. There will be no revision booklet offered to Y8 as the novel and the notes made in their exercise book/on their iPads will form the basis of their revision.

50% of the students' end of year grade has already been attained through an accuracy test and persuasive writing assessment – the marks of these will be added to the overall mark of the exam paper to create the final grade.

FRENCH

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

GEOGRAPHY

- Europe
- Hydrology
- Arctic and Glaciation
- Oceans

Detailed revision lists will be given out closer to the exams.

GERMAN

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

- School subjects
- Clothing
- Family and life at home
- Pets
- The town
- Your house
- Hobbies / leisure

Grammar includes the present tense, the genders of nouns and the nominative and accusative case.

HISTORY

Please note there are a selection of topics in the exam to choose from. You will have covered enough to have a selection to choose from. Therefore, you may have not looked at all the sub-topics with your teacher. Focus on the parts that you have studied.

English History Topics

- Richard III
 - Reputation and Reality
 - Battle of Bosworth Field
- The Tudor Reformation
 - Henry VIII's Reformation
 - Edward VI's changes to the Church
 - Mary Tudor's religious policy
 - The Elizabethan Religious Settlement
- Elizabeth I
 - Image
 - The Spanish Armada
- The English Civil War
 - Causes of the Civil War
 - Civil War battles
 - The role of Oliver Cromwell

World History Topics

- The French Revolution
 - Causes of the French Revolution
 - The storming of the Bastille
 - Structure of French Society under Louis XVI
 - Consequences of the French Revolution
 - How Napoleon came to power
- Golden Age of Spain
 - Key events of the Golden Age of Spain
 - The reigns of Charles V and Philip II
 - Legacy of the Spanish Empire
 - Aztecs and other Native American cultures and the Spanish

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, pluperfect, infinitives including irregular verbs (sum, volo, nolo, possum)
- adjectives
- relative pronouns and clauses

MATHS

Number Revision <ul style="list-style-type: none"> - Negative Numbers - Powers and Roots - Prime Factors - HCF and LCM - Powers of 10 - Significant Figures - Standard Form 	Algebra <ul style="list-style-type: none"> - Equations with brackets - Equations with variables on both sides - More complex equations - Rearranging formula - Trial and improvement 	Sequences <ul style="list-style-type: none"> - Revise linear sequences including finding the nth term - Recognise quadratics, cubics, quartics and quintics by differencing 	Simultaneous Equations <ul style="list-style-type: none"> - Elimination, revision and the need to multiply one or two equations - Substitution - Graphical
Area and Volume <ul style="list-style-type: none"> - Metric units for area and volume - Surface area of prisms - Volume of prisms - Circumference and area of a circle 	Shape <ul style="list-style-type: none"> - Congruent shapes - Transformations including negative and fractional s.f - Combinations of transformations - Pythagoras' theorem 	Straight Lines <ul style="list-style-type: none"> - Graphs from linear - Gradients - Quadratic graphs - Real-life graphs - Midpoints - Regions defined by inequalities 	Interpreting Data <ul style="list-style-type: none"> - Graphs and diagrams - Pie charts - Scatter graphs and correlation
Fractions, Decimals and Percentages <ul style="list-style-type: none"> - Revision of addition and subtraction of fractions - Multiplication and division - % increase / decrease / change - Know what a recurring decimal is a fraction 	Probability <ul style="list-style-type: none"> - Mutually exclusive and exhaustive events - Sample space - Estimates of probability - Venn Diagrams 	Comparing Data <ul style="list-style-type: none"> - Averages including grouped data - Grouped frequency table - Comparing data - Stem and leaf diagrams 	Constructions <ul style="list-style-type: none"> - Perpendicular bisector and angle bisector - The perpendicular from a point to the line - The perpendicular from a point on a line
Algebra <ul style="list-style-type: none"> - Algebraic Notation - Like terms - Expanding brackets - Index notation 	Ratio and Proportion <ul style="list-style-type: none"> - Ratio revision - Direct proportion - Graphs and direct proportion - Inverse proportion 	Angles Revision <ul style="list-style-type: none"> - Angle facts - Interior and exterior angles of polygons 	Bearings and Scale Drawings

PHYSICS

TOPIC	CONTENT
LIGHT	Reflection & refraction ray diagrams Colour
SPEEDING UP	Speed distance time and changing units Distance time graphs
FORCES 2	Balanced and unbalanced forces Resultant forces Link to motion and to d/t graphs
CIRCUITS 2: VOLTAGE	Voltage as a measure of energy Connecting voltmeters Voltage circuit rules
PRESSURE	Solid pressure Liquids & gases - pressure at depth Explosions / implosions.

SPANISH

Nuevos amigos

- Introductions
- Greetings
- How do you say...

En clase

- Classroom instructions
- Classroom objects
- Singular and plural nouns

La familia

- Family members
- Pets
- Family tree

¿Cómo eres?

- Physical description
- Personality description
- Adjectives and agreements

El Instituto

- School subjects
- Facilities
- Opinions

Mi Ciudad

- Places in town
- Describing your town
- Weather
- Sports + Activities

En casa

- Rooms in the house
- Bedroom furniture
- Prepositions

Los ratos libres

- Making plans to meet
- Helping at home

Comer fuera

- Food and drink
- Meal times
- Adjectives to describe food