

YEAR 7 REVISION TOPICS

BIOLOGY

CELLS
<ul style="list-style-type: none">• Basic unit of life. Animal and Plant cells, structure, similarities and differences and functioning of all parts.
<ul style="list-style-type: none">• Light microscope - Parts and Use
<ul style="list-style-type: none">• Life Processes
<ul style="list-style-type: none">• Cell specialisation
<ul style="list-style-type: none">• Cell organisation -Tissue-Organ- Organ System
FLOWERING PLANT REPRODUCTION
<ul style="list-style-type: none">• Flower structure and functions of parts
<ul style="list-style-type: none">• Pollination -Insect/Wind comparison
<ul style="list-style-type: none">• Fertilisation
<ul style="list-style-type: none">• Seeds - Structure and Dispersal
<ul style="list-style-type: none">• Fruits - Dispersal agents - adaptations
VARIATION & CLASSIFICATION
<ul style="list-style-type: none">• Genetic and Environmental Variation
<ul style="list-style-type: none">• Reasons for Classification
<ul style="list-style-type: none">• Binomial system
<ul style="list-style-type: none">• Kingdoms - classification features
<ul style="list-style-type: none">• Phylum Arthropod classification features and those of its classes, including:-
<ul style="list-style-type: none">• Class Insect
<ul style="list-style-type: none">• Phylum Vertebrate - classification features
<ul style="list-style-type: none">• Classification features of the main plant groups
FITNESS & HEALTH (part 1) Lungs, Breathing and Smoking
<ul style="list-style-type: none">• Lung structure and function
<ul style="list-style-type: none">• Gas Exchange - Alveoli - structure, function and adaptations

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:

- Introduction and Safety
- Particle Theory
- Elements, Mixtures and Compounds
- Solubility and Separation Techniques

ENGLISH

Romantic Poetry

Y7 students will cover four Romantic poems in preparation for their End of Year exam. They will cover the key historical context of the time period and relevant information about the poets. They will critically analyse each poem and will need to feel confident in exploring the language, form and structure. Just ONE poem will appear in the end of year exam and students will need to explore the given theme in the question presenting a strong literary argument with a critical academic register and a range of ideas.

The key poems studied are:

- 'The Tyger' by William Blake
- 'Ozymandias' by Percy Bysshe Shelley
- 'London' by William Blake
- 'Composed Upon Westminster Bridge' by William Wordsworth

FRENCH

- Greetings
- Personal details (name, age, etc.)
- Classroom objects
- Town and where you live (places and directions)
- Family
- House (rooms and furniture)
- Numbers 1-100
- Animals
- Colours
- Festivals
- Presents
- Clothes
- Descriptions
- Weather
- Activities
- Months / Days/ Seasons
- Time
- Likes and dislikes
- Etre, Avoir, Aller, ER verbs

GEOGRAPHY

- What is Geography and UK places
- Mapwork
- Settlement
- Coasts

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

HISTORY

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

- Why is 1066 one of the most famous dates in English history?
- Who had power: the Crown or the Church?
- Does King John deserve his terrible reputation?
- Was it all mud, muck and misery for medieval peasants?
- What happened when two worlds clashed? European and Native American encounters.

MATHS

Number - Tests for divisibility - Financial Maths - Arithmetic of Negative Nos.	Sequences - Function machines - Sequences and rules - Missing terms - nth term of linear sequence	Shape - Regular shapes - Compound shapes - Surface area and volume of cubes and cuboids	Decimals - Powers of 10 - Ordering decimals / estimates - Four Rules of Decimals
Number - Squares and square roots - Rounding (dp and sf) - BIDMAS - Multiplication and division non- calculator - Measurements in calculations / conversions - Using a calculator	Data - Mode, mean, median, range - Statistical diagrams - Collecting and using data	Algebra - Expressions and substitution - Simplifying expressions - Using and writing formulae	Fractions - Equivalent fractions - Adding and subtracting fractions - Mixed numbers and improper fractions - Calculations with mixed numbers - Mixed numbers

Angles <ul style="list-style-type: none"> - Measuring and drawing angles - Calculating angles - Corresponding and alternate angles - Angles in a triangle and - Quadrilaterals - Properties of triangles and quadrilaterals 	Co-ordinates and Graphs <ul style="list-style-type: none"> - Coordinates in 4 Quadrants - Graphs from relationships - Predicting graphs from Relationships - Graphs of fixed values of x and y, $y = x$ and $y = -x$ - Graphs of the form $x + y = a$ - Graphs from the real world 	Fractions, Decimals and Percentages <ul style="list-style-type: none"> - Fractions, Decimals and - Fractions of a quantity - Calculating simple percentages - Percentage change 	Probability <ul style="list-style-type: none"> - Probability Scales - Activity - Play your cards right - Combined Events - Activity- Scores on a spinner - Experimental Probability
Transformations <ul style="list-style-type: none"> - Line symmetry and rotational symmetry - Reflections - Rotations - Tessellations 	Algebra <ul style="list-style-type: none"> - Brick Wall Problems - Solving Simple Equations - Solving more complex equations - Setting up and solving equations 	Statistical Diagrams <ul style="list-style-type: none"> - Pie Charts - Comparing mean and range - Statistical surveys 	Shape <ul style="list-style-type: none"> - Naming and drawing 3D shapes - Using nets to construct 3D shapes
Ratio <ul style="list-style-type: none"> - Introduction to ratios - Simplifying ratios - Ratios and sharing - Solving problems 			

PHYSICS

TOPIC	CONTENT
STATIC AND CURRENT ELECTRICITY	Static electricity Conductors and insulators Current in series and parallel circuits
FORCES AND MOTION	Types of forces Mass and weight Force diagrams Speed distance time equations Distance time graphs Balanced and unbalanced forces
SPACE	The solar system Phases of the Moon, eclipses Night, day and seasons