YEAR 7 REVISION TOPICS

BIOLOGY

CELLS	
٠	Basic unit of life. Animal and Plant cells, structure, similarities and differences and functioning of
	all parts.
•	Light microscope - Parts and Use
٠	Life Processes
٠	Cell specialisation
٠	Cell organisation -Tissue-Organ- Organ System
FLOW	ERING PLANT REPRODUCTION
•	Flower structure and functions of parts
•	Pollination -Insect/Wind comparison
•	Fertilisation
٠	Seeds - Structure and Dispersal
•	Fruits - Dispersal agents - adaptations
VARIA	TION & CLASSIFICATION
•	Genetic and Environmental Variation
٠	Reasons for Classification
•	Binomial system
•	Kingdoms - classification features
•	Phylum Arthropod classification features and those of its classes, including:-
٠	Class Insect
٠	Phylum Vertebrate - classification features
٠	Classification features of the main plant groups
FITNES	S & HEALTH (part 1) Lungs, Breathing and Smoking
٠	Lung structure and function
٠	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:

- 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.

<u>MATHS</u>

HALF TERM 1		
Торіс	Sub-Topics	
Induction and Rules of Presentation		
Number Topics	Factors and Multiples	
	Finding HCF and LCM Problems	
	Positive and Negative Numbers	
	Arithmetic of Negative Numbers	
	Order of Operations (BIDMAS)	
	Non-Calculator Arithmetic Strategies	
	Written Non-Calculator Methods	
	Word Problems	
	Using a Calculator	
	Powers and Roots	
	HALF TERM 2	

Algebra	Substitution
Algebra	
	Simplifying Expressions
	Simplifying Expressions (cont.)
	Using Formulae
	Rearranging Formulae / Changing the subject
	Expanding Single Brackets
	Solving Equations
	Forming Formulae and Equations
Shape	Perimeter of Rectangles and Rectalinear Composite Shapes
	Area of Rectangles and Rectalinear Composite Shapes
	HALF TERM 3
Shape	Areas of Polygons (incl. Triangles, Parallelograms and Trapezia)
	Naming, Drawing and Properties of 3D Shapes
	Investigations in 3D Shapes
	Surface Area and Volume of Cubes, Cuboids and Composites
Statistics	Statistics of Listed Data
	Types of Data
Decimal Arithmetic	Adding and Subtracting Decimals
	Strategies for Multiplying and Dividing Decimal Numbers
	HALF TERM 4
Fractions	Converting between Improper and Mixed Numbers
	Adding and Subtracting Fractions
	Multiplying and Dividing Fractions
Probability	Calculating Probabilities
	2D Sample Spaces
	Experimental Probability
Angles	Measuring and Drawing Angles
	Angles in Triangles, angles in quadrilaterals
	HALF TERM 5
Angles (cont.)	Angles around Point and Parallel Lines
Sequences	Sequences Term to Term Relationships and Missing Terms
	Linear nth Term
	Other Sequences
Graphs	Coordinates in 4 Quadrants
	Graphs of the form y = ax
	Graphs in the form $x \pm y = a$
Ratio	Simplifying Ratios
	Sharing Quantities and Ratio Problems

ΤΟΡΙϹ	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