YEAR 7 REVISION TOPICS 2019

BIOLOGY

CELLS

- Basic unit of life. Animal and Plant cells, structure, similarities and differences and functioning of all parts.
- Light microscope Parts and Use
- Life Processes
- Cell specialisation
- Cell organisation -Tissue-Organ- Organ System

FLOWERING PLANT REPRODUCTION

- Flower structure and functions of parts
- Pollination -Insect/Wind comparison
- Fertilisation
- Seeds Structure and Dispersal
- Fruits Dispersal agents adaptations

VARIATION & CLASSIFICATION

- Genetic and Environmental Variation
- Reasons for Classification
- Binomial system
- Kingdoms classification features
- Phylum Arthropod classification features and those of its classes, including:-
- Class Insect
- Phylum Vertebrate- classification features
- Classification features of the main plant groups
- FITNESS & HEALTH (part 1) Lungs, Breathing and Smoking
 - Lung structure and function
 - Breathing mechanism including how the air is processed on entry and the role of cilia and mucus
 - Gas Exchange Alveoli structure, function and adaptations
 - Smoking the harmful substances and common resulting conditions

ENVIRONMENT & FEEDING RELATIONSHIPS

- How organisms are affected by the environment
- Adaptation and Survival, Daily and seasonal cycles
- Food Chains and Webs, Pyramids of Number

CHEMISTRY

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

- Introduction and Safety
- Particle Theory
- Elements, Mixtures and Compounds
- Solubility and Separation Techniques
- Carrying out an investigation (you did the Jelly investigation as an example)

ENGLISH

Romantic Poetry

Y7 students will receive a revision booklet with four poems in it. With their teacher, they will learn about the plot, themes, images and language use of each of the poems. ONE of the poems will appear in the end of year exam and the students will be examined on, predominantly, their ability to write and maintain a strong literary argument. Their marks will then increase based on the complexity of their vocabulary, ideas and analysis. A typical exam essay question will be "How does the poet convey XXX in their poem 'XXX'?

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

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?
- Map Work
- Settlements
- Sustainable Cities

Detailed revision lists will be given out closer to the exams

HISTORY

Please note there is a selection of topics in the exam to choose from. You will have covered enough topics to be able to choose from amongst the questions in the exam. You may not have looked at all the sub-topics with your teacher. **Revise only those topics taught by your teacher**

The Norman Conquest

- The Battle of Hastings
- The Battle of Stamford Bridge
- Control after Hastings

The Life of a Medieval Peasant

- The Black Death
- Consequences of the Black Death
- The Feudal System

The Murder of Thomas Becket

King John - the worst King in England's history?

Magna Carta

Islamic Civilisations

Life in Al-Andalus

Islamic Renaissance

Native Americans

• Battle of Little Bighorn

MATHS			
Number	Sequences	Shape	Decimals
 Tests for divisibility Financial Maths Arithmetic of Negative Nos. 	 Function machines Sequences and rules Missing terms nth term of linear sequence 	 Regular shapes Compound shapes Surface area and volume of cubes and cuboids 	 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	Co-ordinates and	Fractions, Decimals and	Probability
 Measuring and drawing angles Calculating angles Corresponding and alternate angles Angles in a triangle and Quadrilaterals Properties of triangles and quadrilaterals 	 Graphs 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 	 Percentages Fractions, Decimals and Fractions of a quantity Calculating simple percentages Percentage change 	 Probability Scales Activity Play your cards right Combined Events Activity- Scores on a spinner Experimental Probability
 Transformations Line symmetry and rotational symmetry Reflections Rotations Tessellations 	Algebra - Brick Wall Problems - Solving Simple Equations - Solving more complex equations - Setting up and solving equations	 Statistical Diagrams Pie Charts Comparing mean and range Statistical surveys 	 Shape Naming and drawing 3D shapes Using nets to construct 3D shapes
Ratio - Introduction to ratios - Simplifying ratios - Ratios and sharing - Solving problems			

PHYSICS

ΤΟΡΙϹ	CONTENT
STATIC AND CURRENT ELECTRICITY	Static electricity
	Conductors and insulators
	Connecting ammeters and circuit rules
ENERGY, HEATING AND COOLING	Energy types and transfers
	Heat vs temperature
	Conduction, convection, radiation
FORCES 1	Types of forces
	Force diagrams
	Presenting data in graphs
SOLAR SYSTEM	Earth's place in space
	The Moon
	Time zones and season