## YEAR 7 REVISION TOPICS

BIOLOGY

| CELLS |  |
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| $\bullet$ | Basic unit of life. Animal and Plant cells, structure, similarities and differences and functioning of <br> all parts. |
| $\bullet$ | 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 |  |
| - 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.


## MATHS

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


| Algebra | Substitution <br> Simplifying Expressions |
| :---: | :---: |
|  | Simplifying Expressions (cont.) <br> 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 <br> Other Sequences |
| Graphs | Coordinates in 4 Quadrants <br> Graphs of the form $\mathrm{y}=\mathrm{ax}$ <br> Graphs in the form $x \pm y=a$ |
| Ratio | Simplifying Ratios <br> Sharing Quantities and Ratio Problems |


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

