

Year 8 Revision Topics

English

- Students need to be able to identify implicit and explicit information in a text. They will need to practise writing PETER paragraphs. Students will need to understand how to analyse language by considering different connotations of words. They will need to understand how to write a summary therefore how to synthesise information in a text and then comparing texts.

Geography

- Fantastic and impossible places

ICT

Computational Thinking 2

- Algorithms
- Sound
- Hex
- Logic Gates
- Pseudocode
- Advanced flowcharts

Python 2

- Lists
- Functions
- Dictionary
- Tuples

Ethical and cultural impacts

- Environmental
- Health
- Privacy
- Energy Use
- Legal

Maths

Set 1-4 topics for revision

- Multiplying and dividing negative numbers
- BIDMAS
- Calculations with decimals
- Working with mixed numbers
- Index Notation
- Writing numbers in standard form
- Understanding ratio notation
- Working with proportional quantities
- Solving simple equations using brackets
- Linear inequalities
- Working with formulae
- Plotting graphs of linear functions
- Linear sequences
- Angles in triangles and quadrilaterals/Types of quadrilateral
- Bearings
- Volume and surface area of cuboids
- Metric-imperial conversions
- 2-D representations of 3-D shapes
- Using frequency tables/grouped frequency tables
- Stem and leaf diagrams

In addition to this:

Maths

Set 1 and 2 Only

- Prime factorisation
- The constant of proportionality
- Solve simultaneous equations algebraically and graphically
- The equation of a straight line
- Plotting quadratic and cubic graphs
- Quadratic sequences
- Angles in a polygon
- Prisms
- Compound units
- Interquartile range

Music

- Year 8 test will comprise of a practical performance within lesson. Pupils will be given sufficient time to rehearse before the final performance which is recorded.

History

- Slavery and empire

R.E

- Sikhism
- Islam
- Christianity

SCIENCE – Revision List

Physical and Chemical Change	<ul style="list-style-type: none"> Lab Equipment Hazard Symbols Safety Physical and Chemical Change Solids, Liquids and Gases Changing State Filtration, Evaporation, Distillation, Chromatography Solutions
Living Organisms part 1	<ul style="list-style-type: none"> Cells Specialised Cells Microscopes Tissues, Organs and organ systems Diffusion Skeletal System Muscular System Joints and Antagonistic Pairs of muscles Balanced Diet and Food Groups Digestive System Digestive Enzymes
Forces and Motion	<ul style="list-style-type: none"> Types of Forces Balanced and Unbalanced Forces Moments Floating and Sinking Mass and Weight Bending and Stretching Pressure Friction Speed Calculations, Distance and Time Graphs
Rocks and Atmosphere	<ul style="list-style-type: none"> Sedimentary Rocks Metamorphic Rocks Igneous Rocks Weathering and Erosion The Rock Cycle Atmosphere Extinction Fossil Record
Electricity and Magnetism	<ul style="list-style-type: none"> Series and Parallel circuits Current and voltage Magnets Electromagnets
Environment and interdependence	<ul style="list-style-type: none"> Adaptation Classification Competition Predators and prey Food chains and webs Pyramids of number and biomass Bioaccumulation Photosynthesis Plant reproduction and seed dispersal

Forming compounds	Atoms, elements and compounds Acids and alkalis Oxidation Decomposition
Waves and energy	Waves Sound and hearing Light and the eye Reflection and refraction Colour
Living Organisms part 2	Lungs and breathing Heart and circulation Respiration Exercise Drugs Nervous system
The periodic table	The periodic table Metals and non-metals The alkali metals Metal reactions Alloys Modern materials
Reproduction and inheritance	DNA Variation Natural selection Biodiversity and gene banks The reproductive system Puberty and the menstrual cycle Pregnancy Genetic crosses

Technology

Technology at KS3 is studied in units these are; Catering, Graphics, Product Design and Textiles . Each unit is assessed when the student has completed it therefore different topics are assessed at different times of the year. Each class will get a revision list when they are due to take one of these tests. We have included the revision lists for each subject within technology however students will be taking their exams at the end of the topic they are doing not during exam week.

Graphics Revision

- Isometric Drawing
- Perspective Drawing
- Presentation drawing
- Use of tone and shade

Design Styles

- Bauhaus
- Memphis
- De Stijl
- Mondrian

Small electronic device design

Textiles

- Natural and Manmade Fabrics
- Parts of the Sewing Machine
- What is a Design Specification
- Writing a Design Specification
- Applique Process
- Batik Process
- Other Decorative Techniques
- Identifying different fastenings
- What the different pieces of Textiles equipment are and what they do.
- Tacking Process