

Year 9 Revision Topics

Business

Students should revise the **Production, Finance and the External Business Environment unit of work** (using their green books and past exam papers as guidance).

Production

- Production methods
- Division of labour
- Economies of scale
- Added value

Finance

- Revenue and price elasticity
- Break even
- Costs
- Cash flow

External Business Environment

- The economy
- Sustainability
- Social costs of production
- Exchange rates and the EU

Computing

Boolean Logic

AND, NOT OR Gates

Sorting

- Bubble Sort
- Selection Sort
- Linear sort
- Quick sort
- Embedded Systems

Computer Hardware

- CPU
- Cache
- Memory
- Cores
- Processor speed

Algorithm and Pseudocode

Python

- Functions
- Input and Output
- Lists
- Selection
- Iteration

English

- The year 9 exam will consist of two parts- part a will be assessing reading skills and part b will be assessing writing skills.
- Macbeth - Students need to understand the play as a whole- knowing key events and key characters. Furthermore, they need to learn key quotations.
- Descriptive Writing - descriptive writing techniques such as, similes, metaphors, personification, interesting vocabulary and using the senses. Students will be awarded marks for using a variety of sentences structures and thinking about the way they structure their writing as a whole. A range of punctuation used for effect and interesting vocabulary that includes at the start of sentences will also help gain marks. The descriptive piece will be based on a picture so students are encouraged to be creative. There are separate marks awarded for Spelling, Punctuation and Grammar.

Geography

- Natural hazards, tectonics, extreme weather, rivers and coasts. (revision booklet available)

ICT

Chapter 1:

- Mobile phones
- Computers and laptops
- Socialising on the internet
- The internet as a work tool
- Internet safety
- The digital divide
- E-safety

Chapter 2:

- How different technologies can be used together
- Security risks to data and how to reduce or contain them.

Chapter 3

- The widespread use of the internet The use of usernames, passwords and other security measures
- Control of access to and management of personal spaces
- Threats to and methods of preventing misuse of personal information and e-safety
- The impact of relevant legislation.

Chapter 5:

- Online shopping
- Setting up an online account
- Paying safely online
- Avoiding online fraud
- How to keep data safe

Chapter 6

- Security issues that arise when information is transmitted and stored digitally
- Privacy issues associated with the use of ICT
- Health and safety issues that arise from individuals' use of ICT
- Legislation relating to the use of ICT, including copyright and data protection
- Sustainability issues and ways of minimising/mitigating the environmental impact of ICT.

Students should also use their revision guide and workbook to do practice questions

Maths Foundation Revision List

Integers and place value
Decimals
Indices, powers and roots
Factors, multiples and primes
Algebra: the basics
Expanding and factorising single brackets
Expressions and substitution into formulae
Tables
Charts and graphs
Pie charts
Scatter graphs
Fractions
Fractions, decimals and percentages
Percentages
Equations
Inequalities
Sequences

Maths Higher Revision List

Calculations, checking and rounding
Indices, roots, reciprocals and hierarchy of operations
Factors, multiples and primes
Standard form and surds
Algebra: the basics
Setting up, rearranging and solving equations
Sequences
Averages and range
Representing and interpreting data
Scatter graphs
Fractions
Percentages
Ratio and proportion
Polygons, angles and parallel lines

Calculations, checking and rounding
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Standard form and surds
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Representing and interpreting data
Scatter graphs
Fractions
Percentages
Ratio and proportion
Polygons, angles and parallel lines

MFL (French)

All students have vocab lists and will be told which units to revise from using Kerboodle online resources.

- French
- Reading, Writing and listening exam
- Sports and past times
- Entertainment and Media
- Technology
- A balanced diet

MFL (German)

All students have vocab lists and will be told which units to revise from using Kerboodle online resources.

- Reading, Writing and listening exam
- Freetime activities
- TV and films
- Environment

Music

- Revise instrumental sounds of the orchestra
(Listen to Benjamins Britten 'Guide to the Orchestra')
- Revise Musical notation including identifying chords.
- Revise Musical structure; Binary, Ternary etc
- Revise keywords list
- Time signatures
- Keys

History.

- Treaty of Versailles and League of Nations

Product Design

- CAD/CAM
- product evolution
- sustainability
- industrial practices/methods (the 4 types)
- design eras
- timbers and finishes
- smart and composite materials
- biomimicry

R.E

- All lessons from unit 1, Relationships & Family
- All lessons from unit 2, Religion and life &
- The lessons covered so far in unit 3, Religion, peace and conflict.

Science

Biology:

- Cell biology
- Organisation
- Bioenergetics
- Infection and response

Chemistry:

- Atomic structure
- Bonding and structure
- Chemical changes
- Energy changes

Physics:

- Particle model of matter
- Energy
- Electricity
- Atomic structure

P.E.

- 1. Musculoskeletal system
- 2. Training Methods
- 3. Data and Graphs
- 4. Training Zones
- 5. Fitness Testing
- 6. Anaerobic and Aerobic
- 7. Components of fitness