

2026 Y10 Mock Exam Revision information booklet

A LITTLE
PROGRESS
EACH
DAY
ADDS
UP
TO BIG
RESULTS

What do I need to revise for this exam?

| Topic | Sparx Code |
|--|------------|
| Solving equations with one step | U755 |
| Adding and subtracting fractions | U736 |
| Converting between fractions, decimals and percentages | U888 |
| Using a calculator | U926 |
| Finding fractions of amounts with a calculator | U916 |
| Properties of 3D shapes | U719 |
| Properties of 3D shapes | U719 |
| Writing probabilities as fractions | U408 |
| Writing probabilities as fractions | U408 |
| Converting units of length, mass and capacity | U388 |
| Solving direct proportion word problems | U721 |
| Line and shape properties | U121 |
| Understanding congruence | U790 |
| Reflection | U799 |
| Finding percentages of amounts with a calculator | U349 |
| Drawing pie charts | U508 |
| Constructing and solving equations | U599 |
| Probabilities of mutually exclusive events | U683 |
| Writing probabilities as fractions, decimals and percentages | U510 |
| Expected results from repeated experiments | U166 |

| | |
|---|----------------|
| Finding the lowest common multiple | U751 |
| Writing and simplifying ratios | U687 |
| Perimeter of simple shapes, Simplifying by collecting like terms, Symmetry | U993,U105,U849 |
| Solving equations with two or more steps | U325 |
| Percentage change with a calculator | U671 |
| Reading and drawing inequalities on number lines | U509 |
| Solving double inequalities | U145 |
| Solving inequalities with the variable on both sides | U738 |
| Rounding integers using significant figures | U731 |
| Using a calculator | U926 |
| Percentage change with a calculator | U671 |
| Plotting graphs of quadratic functions | U989 |
| Plotting graphs of quadratic functions | U989 |
| Solving quadratic equations graphically | U601 |
| Interpreting bar charts, Writing numbers as percentages of other numbers | U557,U925 |
| Finding averages from diagrams | U854 |
| Calculating with speed | U151 |
| Calculating with speed | U151 |
| Sharing amounts in a given ratio, Finding unknown sides in right-angled triangles | U577,U283 |
| Position-to-term rules for arithmetic sequences | U498 |

What do I need to revise for this exam?

| | |
|---|---------------------|
| Rounding integers using significant figures | U731 |
| Using a calculator | U926 |
| Percentage change with a calculator | U671 |
| Plotting graphs of quadratic functions | U989 |
| Solving quadratic equations graphically | U601 |
| Interpreting bar charts, Writing numbers as percentages of other numbers | U557,U925 |
| Finding averages from diagrams | U854 |
| Calculating with speed | U151 |
| Sharing amounts in a given ratio, Finding unknown sides in right-angled triangles | U577,U283 |
| Drawing and interpreting frequency polygons | U840 |
| Finding the volume of cubes and cuboids | U786 |
| Expanding triple brackets | U606 |
| Simplifying expressions using index laws | U662 |
| Solving quadratic equations using the quadratic formula | U665 |
| Interpreting cumulative frequency graphs, Drawing box plots | U642,U879 |
| Comparing populations using box plots and cumulative frequency graphs | U507 |
| Graphs of trigonometric functions | U450 |
| Using Pythagoras' theorem in 3D, Trigonometry in 3D shapes | U541,U170 |
| Constructing inverse proportion equations | U138 |
| Writing algebraic proofs | U582 |
| Finding the turning point of a quadratic graph by completing the square | U769 |
| Drawing histograms with unequal class widths | U814 |
| Calculating averages from histograms | U267 |
| Calculating with speed, Finding error intervals for calculations | U151,U587 |
| Tree diagrams, Algebraic fractions, Factorise to solve quadratics | U729,U685,U457,U228 |
| Combining transformations | U766 |

Exam: Religious Education **Length of Exam:** 1 hour 30 **Date:** 27 April PM

What do I need to remember about this exam?

- In the C questions, you **MUST** compare Catholic with Jewish, Liberal **OR** Fundamental Christians
- In the D questions, you **MUST** give an Atheist point of view as well as a Catholic view.
- Use Belief/Source/Impact in all of your answers.

What do I need to revise for this exam?

Section 1: Origins & Meaning

- The stories of creation in Genesis 1 and 2
- Fundamental Christian views on creation (creationism)
- Catholic views on creation
- Creation Ex Nihilo and St Augustine
- Big Bang and Evolution
- The Bible: Inspiration and Word of God
- Imago Dei and St Catherine of Sienna
- The sanctity of life
- Catholic views on abortion
- Liberal Christian/Humanist views on abortion
- Stewardship
- Charities - CAFOD/SVP
- Catholic Social teaching – Work for Peace and Justice/interfaith dialogue
- Catholic art: Creation of Adam and the Tree of life



Key words for Paper 1:

Omnipotence
Stewardship
Inspiration
Transcendence
Imago Dei
Revelation
Creation ex nihilo
Evolution
Conscience
Evil
Free-will
Goodness
Incarnation
Natural Law
Privation
Suffering

Section 2: Good & Evil

- The Problem of Evil
- Different religious views on the origins of evil
- Catholic views on where evil comes from
- Catholic theodicies—St Augustine and St Irenaeus
- The Trinity
- Free will and conscience
- Natural Law
- Can good come from evil?
- The incarnation and Jesus' suffering
- Virtues
- The Rosary
- Pilgrimage
- Catholic art: Statues—Michelangelo's Pieta.



Where can I find help with revision?

- Use the knowledge organisers your teacher has given you
- Check your class team for revision PowerPoints/resources.
- Log on to teams the night before to listen in to a live revision session (also recorded to watch later)
- Mr McMillan on YouTube – EDUQAS Route B exam board

What do I need to remember about this exam?

Draw diagrams in pencil.

Identify key words in extended answer questions.

Remember you can bullet point your answers.

Show full working out in calculations.

Substitute the values into the equation before rearranging.

Attempt all questions.

What do I need to revise for this exam?

| Topics | Required Practicals |
|-----------------------------|--|
| 1. Energy | Topic 2: IV characteristics, length of wire Topic 3: Density, specific heat capacity. |
| 2. Electricity | |
| 3. Particle model of matter | |
| 4. Atomic structure | |

Working Scientifically

| | |
|--|----|
| The Scientific Method..... | 1 |
| Communication & Issues Created by Science..... | 2 |
| Risk..... | 3 |
| Designing Investigations..... | 4 |
| Collecting Data..... | 5 |
| Processing and Presenting Data..... | 6 |
| Units and Equations..... | 8 |
| Drawing Conclusions..... | 9 |
| Uncertainties and Evaluations..... | 10 |

Topic P1 — Energy

| | |
|--|-----|
| Energy Stores and Systems..... | 167 |
| Kinetic and Potential Energy Stores..... | 168 |
| Specific Heat Capacity..... | 169 |
| Conservation of Energy and Power..... | 170 |
| Reducing Unwanted Energy Transfers..... | 171 |
| Efficiency..... | 172 |
| Energy Resources and Their Uses..... | 173 |
| Wind, Solar and Geothermal..... | 174 |
| Hydro-electricity, Waves and Tides..... | 175 |
| Bio-fuels and Non-renewables..... | 176 |
| Trends in Energy Resource Use..... | 177 |
| Revision Questions for Topic P1..... | 178 |

Topic P2 — Electricity

| | |
|---|-----|
| Current and Circuit Symbols..... | 179 |
| Resistance and $V = IR$ | 180 |
| Resistance and I - V Characteristics..... | 181 |
| Circuit Devices..... | 182 |
| Series Circuits..... | 183 |
| Parallel Circuits..... | 184 |
| Investigating Resistance..... | 185 |
| Electricity in the Home..... | 186 |
| Power of Electrical Appliances..... | 187 |
| More on Power..... | 188 |
| The National Grid..... | 189 |
| Revision Questions for Topic P2..... | 190 |

Topic P3 — Particle Model of Matter

| | |
|---|-----|
| The Particle Model and Motion in Gases..... | 191 |
| Density of Materials..... | 192 |
| Internal Energy and Changes of State..... | 193 |
| Specific Latent Heat..... | 194 |

Topic P4 — Atomic Structure

| | |
|--|-----|
| Developing the Model of the Atom..... | 195 |
| Isotopes and Nuclear Radiation..... | 196 |
| Nuclear Equations..... | 197 |
| Half-life..... | 198 |
| Irradiation and Contamination..... | 199 |
| Revision Questions for Topics P3 & P4..... | 200 |

Where can I find help with revision?

Educake

Seneca learning <https://senecalearning.com/en-GB/>

"Boring blue guy".... <https://www.freesciencelessons.co.uk/videos/>

BBC Bitesize AQA Trilogy

What do I need to remember about this exam?

Draw diagrams in pencil.
 Identify key words in extended answer questions.
 Remember you can bullet point your answers.
 Show full working out in calculations.
 Substitute the values into the equation before rearranging.
 Attempt all questions.

What do I need to revise for this exam?

| Topics | Required Practicals |
|---|--|
| 1. Energy 2. Electricity 3. Particle model of matter 4. Atomic structure | Topic 2: IV characteristics, length of wire Topic 3: Density, specific heat capacity. |

Working Scientifically

| | |
|--|----|
| The Scientific Method..... | 1 |
| Communication & Issues Created by Science..... | 2 |
| Risk..... | 3 |
| Designing Investigations..... | 4 |
| Collecting Data..... | 5 |
| Processing and Presenting Data..... | 6 |
| Units..... | 8 |
| Drawing Conclusions..... | 9 |
| Uncertainties and Evaluations..... | 10 |

Topic P1 — Energy

| | |
|--|-----|
| Energy Stores and Systems..... | 167 |
| Conservation of Energy and Energy Transfers..... | 168 |
| Kinetic and Potential Energy Stores..... | 169 |
| Energy Transfers by Heating..... | 170 |
| Investigating Specific Heat Capacity..... | 171 |
| Power..... | 172 |
| Reducing Unwanted Energy Transfers..... | 173 |
| Efficiency..... | 174 |
| Energy Resources and Their Uses..... | 175 |
| Wind, Solar and Geothermal..... | 176 |
| Hydro-electricity, Waves and Tides..... | 177 |
| Bio-fuels and Non-renewables..... | 178 |
| Trends in Energy Resource Use..... | 179 |

Topic P2 — Electricity

| | |
|--|-----|
| Current and Circuit Symbols..... | 180 |
| Resistance and $V = IR$ | 181 |
| Investigating Resistance..... | 182 |
| I-V Characteristics..... | 183 |
| Circuit Devices..... | 184 |
| Series Circuits..... | 185 |
| Parallel Circuits..... | 186 |
| Investigating Circuits..... | 187 |
| Electricity in the Home..... | 188 |
| Power of Electrical Appliances..... | 189 |
| More on Power..... | 190 |
| The National Grid..... | 191 |
| Revision Questions for Topics P1 & P2..... | 192 |

Topic P3 — Particle Model of Matter

| | |
|---|-----|
| The Particle Model and Motion in Gases..... | 193 |
| Density of Materials..... | 194 |
| Internal Energy and Changes of State..... | 195 |
| Specific Latent Heat..... | 196 |

Topic P4 — Atomic Structure

| | |
|--|-----|
| The Current Model of the Atom..... | 197 |
| Isotopes and Nuclear Radiation..... | 198 |
| Nuclear Equations..... | 199 |
| Half-life..... | 200 |
| Irradiation and Contamination..... | 201 |
| Revision Questions for Topics P3 & P4..... | 202 |

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 BBC Bitesize AQA Trilogy

What do I need to remember about this exam?

- Draw diagrams in pencil.
- Identify key words in extended answer questions.
- Remember you can bullet point your answers.
- Show full working out in calculations.
- Substitute the values into the equation before rearranging.
- Attempt all questions.

What do I need to revise for this exam? Use your revision guide

| Topics | Required Practicals |
|---|--|
| 1. Energy 2. Electricity 3. Particle model of matter 4. Atomic structure | Topic 1: Thermal insulation Topic 2: IV characteristics, length of wire Topic 3 - Density, specific heat capacity. |

Topic 1 — Energy

| | |
|--|----|
| Energy Stores..... | 17 |
| Work Done | 18 |
| Kinetic and Potential Energy Stores..... | 19 |
| Specific Heat Capacity | 20 |
| Investigating Specific Heat Capacity | 21 |
| Warm-Up & Exam Questions..... | 22 |
| Conservation of Energy and Power | 23 |
| Conduction | 24 |
| Convection..... | 25 |
| Reducing Unwanted Energy Transfers | 26 |
| Investigating Energy Transfers..... | 27 |
| Efficiency | 28 |
| Warm-Up & Exam Questions..... | 29 |
| Exam Questions..... | 30 |
| Energy Resources and their Uses | 31 |
| Wind and Solar Power..... | 32 |
| Geothermal and Hydro-electric Power | 33 |
| Wave Power and Tidal Barrages..... | 34 |
| Bio-fuels..... | 35 |
| Non-Renewable Resources..... | 36 |
| Trends in Energy Resource Use..... | 37 |
| Warm-Up & Exam Questions..... | 38 |
| Revision Summary for Topic 1 | 39 |

Topic 2 — Electricity

| | |
|-------------------------------------|----|
| Current and Circuit Symbols..... | 40 |
| Resistance | 41 |
| Investigating Resistance..... | 42 |
| I-V Characteristics | 43 |
| Warm-Up & Exam Questions..... | 44 |
| Circuit Devices..... | 45 |
| Sensing Circuits..... | 46 |
| Series Circuits..... | 47 |
| Parallel Circuits..... | 49 |
| Circuits and Resistance..... | 50 |
| Warm-Up & Exam Questions..... | 51 |
| Electricity in the Home..... | 52 |
| Power of Electrical Appliances..... | 53 |
| More on Power..... | 54 |
| The National Grid..... | 55 |
| Warm-Up & Exam Questions..... | 57 |
| Static Electricity..... | 58 |
| Electric Fields..... | 60 |
| Warm-Up & Exam Questions..... | 61 |
| Revision Summary for Topic 2 | 62 |

Topic 4 — Atomic Structure

| | |
|---------------------------------------|----|
| Developing the Model of the Atom..... | 72 |
| Isotopes..... | 74 |
| Ionising Radiation..... | 75 |
| Nuclear Equations..... | 76 |
| Half-Life..... | 77 |
| Warm-Up & Exam Questions..... | 79 |
| Exam Questions..... | 80 |
| Background Radiation..... | 81 |
| Contamination..... | 82 |
| Uses and Risks of Radiation..... | 83 |
| Nuclear Fission and Fusion..... | 84 |
| Warm-Up & Exam Questions..... | 85 |
| Revision Summary for Topic 4 | 86 |

Topic 3 — Particle Model of Matter

| | |
|---|----|
| Particle Model..... | 63 |
| Density..... | 64 |
| Internal Energy and Changes of State..... | 65 |
| Specific Latent Heat..... | 66 |
| Particle Motion in Gases..... | 67 |
| Pressure of Gases..... | 68 |
| Warm-Up & Exam Questions..... | 69 |
| Exam Questions..... | 70 |
| Revision Summary for Topic 3 | 71 |

Where can I find help with revision?

Educake

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"Boring blue guy".... <https://www.freesciencelessons.co.uk/videos/>

BBC Bitesize AQA Trilogy

What do I need to remember about this exam?

- Answer all questions
- Read through the multiple-choice questions carefully as they can help you with content for other questions.
- Use the 3-paragraph structure for the 6- and 9-mark questions.

What do I need to revise for this exam?

3.1 The human body and movement in physical activity and sport

3.1.1 Applied anatomy and physiology

3.1.1.1 The structure and functions of the musculoskeletal system

3.1.1.2 The structure and functions of the cardio-respiratory system

3.1.1.3 Anaerobic and aerobic exercise

3.1.1.4 The short and long term effects of exercise

3.1.2 Movement analysis

3.1.2.1 Lever systems, examples of their use in activity and the mechanical advantage they provide in

3.1.2.2 Planes and axes of movement

3.1.3 Physical training

3.1.3.1 The relationship between health and fitness and the role that exercise plays in both

3.1.3.2 The components of fitness, benefits for sport and how fitness is measured and improved

3.1.3.3 The principles of training and their application to personal exercise/training programmes

3.1.3.4 How to optimise training and prevent injury

3.1.3.5 Effective use of warm up and cool down

3.1.4.1 Demonstrate an understanding of how data are collected – both qualitative and quantitative

3.1.4.2 Present data (including tables and graphs)

3.1.4.3 Analyse and evaluate data

Where can I find help with revision?

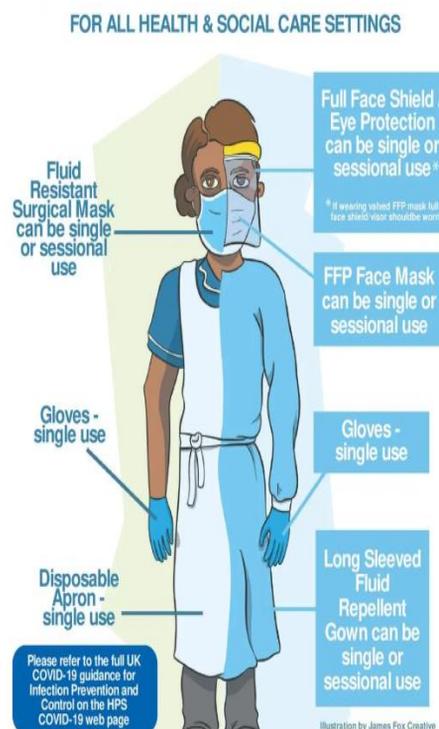
BBC Bitesize, Youtube, AQA website for past papers, or Mr Raper and Miss Dunning.

What do I need to remember about this exam?

- Use common sense.
- Make sure you look at the number of marks available for each question –will what you have written get you the number of marks available.
- Make sure you answer EVERY question.
- Always check over your answers when you have finished to look for any mistakes.

What do I need to revise for this exam?

- Personal Protective Equipment (PPE) examples and uses.
- Safety Measures and Security Measures
 - Examples
 - Reasons for use
 - Where they are best used
- Safeguarding:
 - Reasons for training
 - Role of the Designated Safeguarding Lead
- Rights of the services users and the impacted when those rights are not maintained.
- Service providers personal hygiene.
- Person-centred Values
- The 6 C's.
- The role of an Advocate
- Identify different types of healthcare settings.
- Identify different types of social care settings.
- Effective communication.



Where can I find help with revision?

Revision Booklets given out in class.

Take your workbook home to help with revision material.

Revision material available on TEAMS and on the school webpage.

Additional Knowledge Organisers available from Mrs Iley and Mrs Booth.

What do I need to remember about this exam?

- Read the whole question carefully before attempting to answer it
- Use the correct keywords
- Remember you can bullet point your answers to 6 mark questions
- Show all your working in calculations and remember units and conversions
- Answer all questions and if struggling use a process of elimination or have an educated guess!

What do I need to revise for this exam? use the revision guide

| Topics | Required Practicals |
|---|--|
| B1 Cell biology B2 Organisation B3 Infection and response B4 Bioenergetics | B1- Microscopy B1 – Culturing microorganisms B1- Osmosis B2- Food tests B2- Enzymes and pH B4- Photosynthesis |

Paper One

Topic 1 — Cell Biology

Topic 1a — Cells and Microscopy

Cells4
 Microscopy5
 More on Microscopy6
 Warm-Up & Exam Questions7
 Cell Specialisation and Differentiation8
 Stem Cells9
 Chromosomes and Mitosis10
 Binary Fission11
 Warm-Up & Exam Questions12
 Culturing Microorganisms13
 Warm-Up & Exam Questions15
Revision Summary Test for Topic 1a16

Topic 1b — Exchanging Substances

Diffusion17
 Osmosis18
 Active Transport19
 Exchange Surfaces20
 Exchanging Substances21
 More on Exchanging Substances22
 Warm-Up & Exam Questions23
 Exam Questions24
Revision Summary Test for Topic 1b25

Topic 2 — Organisation

Topic 2a — Organisation, Enzymes and Circulation

Cell Organisation26
 Enzymes27
 Investigating Enzymatic Reactions28
 Enzymes and Digestion29
 More on Enzymes and Digestion30
 Food Tests31
 Warm-Up & Exam Questions32
 Exam Questions33
 The Lungs34
 Circulatory System — The Heart35
 Circulatory System — Blood Vessels36
 Circulatory System — Blood37
 Warm-Up & Exam Questions38
 Exam Questions39
Revision Summary Test for Topic 2a40

Topic 2b — Disease and Plant Organisation

Cardiovascular Disease41
 More on Cardiovascular Disease42
 Warm-Up & Exam Questions43
 Health and Disease44
 Non-Communicable Disease Risk Factors45
 Cancer46
 Warm-Up & Exam Questions47
 Plant Cell Organisation48
 Transpiration and Translocation49
 Transpiration and Stomata50
 Warm-Up & Exam Questions51
 Exam Questions52
Revision Summary Test for Topic 2b53

Topic 3 — Infection and Response

Communicable Disease54
 The Spread of Disease55
 Viral and Fungal Diseases56
 Bacterial and Protist Diseases57
 Warm-Up & Exam Questions58
 Fighting Disease59
 Fighting Disease — Vaccination60
 Fighting Disease — Drugs61
 Developing Drugs62
 Warm-Up & Exam Questions63
 Exam Questions64
 Producing Monoclonal Antibodies65
 Uses of Monoclonal Antibodies66
 More Uses of Monoclonal Antibodies67
 Plant Diseases and Defences68
 Warm-Up & Exam Questions69
Revision Summary Test for Topic 370

Topic 4 — Bioenergetics

Photosynthesis and Limiting Factors71
 The Rate of Photosynthesis72
 More on the Rate of Photosynthesis73
 Investigating Photosynthesis74
 Light Intensity and Farming75
 Warm-Up & Exam Questions76
 Exam Questions77
 Respiration and Metabolism78
 Aerobic and Anaerobic Respiration79
 Exercise80
 Warm-Up & Exam Questions81
Revision Summary Test for Topic 482

Where can I find help with revision?

- Educake : educake.co.uk
- Seneca learning <https://senecalearning.com/en-GB/>
- <https://www.freesciencelessons.co.uk/videos/>
- Speak to your teacher!
- Teams class pages and resources
- Revision guide

What do I need to remember about this exam?

Read the whole question carefully before attempting to answer it

Use the correct keywords

Remember you can bullet point your answers to 6 mark questions

Show all your working in calculations and remember units and conversions

Answer all questions and if struggling use a process of elimination or have an educated guess!

What do I need to revise for this exam? use the revision guide

Topic B1 — Cell Biology

| | |
|--|----|
| Cells..... | 11 |
| Microscopy..... | 12 |
| More on Microscopy..... | 13 |
| Cell Differentiation and Specialisation..... | 14 |
| Chromosomes and Mitosis..... | 15 |
| Stem Cells..... | 16 |
| Diffusion..... | 17 |
| Osmosis..... | 18 |
| Active Transport..... | 19 |
| Exchange Surfaces..... | 20 |
| Exchanging Substances..... | 21 |
| More on Exchanging Substances..... | 22 |
| Revision Questions for Topic B1..... | 23 |

Topic B2 — Organisation

| | |
|---|----|
| Cell Organisation..... | 24 |
| Enzymes..... | 25 |
| Investigating Enzymatic Reactions..... | 26 |
| Enzymes and Digestion..... | 27 |
| More on Enzymes and Digestion..... | 28 |
| Food Tests..... | 29 |
| The Lungs..... | 30 |
| Circulatory System — The Heart..... | 31 |
| Circulatory System — Blood Vessels..... | 32 |
| Circulatory System — Blood..... | 33 |
| Cardiovascular Disease..... | 34 |
| More on Cardiovascular Disease..... | 35 |
| Health and Disease..... | 36 |
| Risk Factors for Non-Communicable Diseases..... | 37 |
| Cancer..... | 38 |
| Plant Cell Organisation..... | 39 |
| Transpiration and Translocation..... | 40 |
| Transpiration and Stomata..... | 41 |
| Revision Questions for Topic B2..... | 42 |

| Topics | Required Practicals |
|---------------------------|---------------------|
| B1 Cell biology | B1- Microscopy |
| B2 Organisation | B1- Osmosis |
| B3 Infection and response | B2- Food tests |
| B4 Bioenergetics | B2- Enzymes and pH |
| | B4- Photosynthesis |

Topic B3 — Infection and Response

| | |
|--|----|
| Communicable Disease..... | 43 |
| Viral, Fungal and Protist Diseases..... | 44 |
| Bacterial Diseases and Preventing Disease..... | 45 |
| Fighting Disease..... | 46 |
| Fighting Disease — Vaccination..... | 47 |
| Fighting Disease — Drugs..... | 48 |
| Developing Drugs..... | 49 |

Topic B4 — Bioenergetics

| | |
|--|----|
| Photosynthesis and Limiting Factors..... | 50 |
| The Rate of Photosynthesis..... | 51 |
| Respiration and Metabolism..... | 54 |
| Aerobic and Anaerobic Respiration..... | 55 |
| Exercise..... | 56 |
| Revision Questions for Topics B3 & B4..... | 57 |

Where can I find help with revision?

Educake : educake.co.uk

Seneca learning <https://senecalearning.com/en-GB/>

<https://www.freesciencelessons.co.uk/videos/>

Speak to your teacher!

Teams class pages and resources

Revision guide

What do I need to remember about this exam?

Read the whole question carefully before attempting to answer it
 Use the correct keywords
 Remember you can bullet point your answers to 6-mark questions
 Show all your working in calculations and remember units and conversions
 Answer all questions and if struggling use a process of elimination or have an educated guess!

What do I need to revise for this exam?

| Topics | Required Practicals |
|---|---|
| B1 Cell biology B2 Organisation B3 Infection and response B4 Bioenergetics | B1- Microscopy B1- Osmosis B2- Food tests B2- Enzymes and pH B4- Photosynthesis |

Topic B1 — Cell Biology

| | |
|--|----|
| Cells..... | 11 |
| Microscopy..... | 12 |
| More on Microscopy..... | 13 |
| Cell Differentiation and Specialisation..... | 14 |
| Chromosomes and Mitosis..... | 15 |
| Stem Cells..... | 16 |
| Diffusion..... | 17 |
| Osmosis..... | 18 |
| Active Transport..... | 19 |
| Exchanging Substances..... | 20 |
| More on Exchanging Substances..... | 21 |
| Revision Questions for Topic B1..... | 23 |

Topic B3 — Infection and Response

| | |
|-------------------------------------|----|
| Communicable Disease..... | 42 |
| Bacterial Diseases..... | 43 |
| Viral Diseases..... | 44 |
| Fungal and Protist Diseases..... | 45 |
| Fighting Disease..... | 46 |
| Fighting Disease — Vaccination..... | 47 |
| Fighting Disease — Drugs..... | 48 |
| Developing Drugs..... | 49 |

Topic B4 — Bioenergetics

| | |
|--|----|
| Photosynthesis..... | 50 |
| The Rate of Photosynthesis..... | 51 |
| Respiration and Metabolism..... | 53 |
| Aerobic and Anaerobic Respiration..... | 54 |
| Exercise..... | 55 |
| Revision Questions for Topics B3 & B4..... | 56 |

Topic B2 — Organisation

| | |
|---|----|
| Cell Organisation..... | 24 |
| Enzymes..... | 25 |
| Investigating Enzymatic Reactions..... | 26 |
| Enzymes and Digestion..... | 27 |
| Food Tests..... | 28 |
| The Lungs..... | 29 |
| Circulatory System — The Heart..... | 30 |
| Circulatory System — Blood Vessels..... | 31 |
| Circulatory System — Blood..... | 32 |
| Cardiovascular Disease..... | 33 |
| More on Cardiovascular Disease..... | 34 |
| Health and Disease..... | 35 |
| Risk Factors for Non-Communicable Diseases..... | 36 |
| Cancer..... | 37 |
| Plant Cell Organisation..... | 38 |
| Transpiration and Translocation..... | 39 |
| Transpiration and Stomata..... | 40 |
| Revision Questions for Topic B2..... | 41 |

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 Revision guide

What do I need to remember about this exam?

- You will be assessed on all content you have learnt in Year 10 so far.
- Read and re-read each question before answering to know what you're expected to include.
- Look at the number of marks available and make sure your answer covers enough for each mark.
- Don't be vague! Answers should be specific to what you are discussing.

What do I need to revise for this exam?

Systems Architecture



- The purpose of the CPU
- Common CPU components and their function
- Von Neumann architecture
- How common characteristics of CPUs affect their performance
- The purpose and characteristics of embedded systems
- Examples of embedded systems

Memory & Storage



- The need for primary storage
- The purpose/differences between RAM/ROM
- Virtual memory
- The need for secondary storage
- Common types of storage
- Suitable storage devices/media for given purposes
- Advantages/disadvantages of different storage types
- The units of data storage
- Convert between denary, binary and hexadecimal number systems
- Binary addition and overflow errors
- Binary shifts
- ASCII/Unicode character sets
- Image representation and metadata
- Colour depth and resolution
- Sound sampling (sample rate, duration and bit depth)
- Lossy/Lossless compression

Programming Fundamentals



- The use of variables, constants, operators, inputs, outputs and assignments
- The use of the three basic programming constructs used to control the flow of a program
- Common arithmetic and Boolean operators (AND/OR/NOT)
- The use of data types
- The use of string manipulation
- The use of basic file handling operations
- The use of records to store data
- The use of SQL to search for data
- The use of array data structures (1D/2D)
- How to use functions and procedures
- Random number generation

Boolean Logic



- Simple logic diagrams using AND/OR/NOT
- Truth tables
- Combining Boolean operators using AND/OR/NOT
- Applying logical operators in truth tables to solve problems

Algorithms



- Principles of computational thinking (abstraction, decomposition, algorithmic thinking)
- Identifying inputs, process and outputs of a problem
- Structure diagrams
- Pseudocode/flowcharts
- Identifying common errors
- Trace tables
- Searching algorithms (Binary search, linear search)
- Sorting algorithms (Bubble sort, merge sort, insertion sort)

Where can I find help with revision?



Seneca Learning

<https://senecalearning.com/>



CSNewbs

<https://www.csnewbs.com/>



Computer Science GCSE Guru

<https://www.computerscience.gcse.guru/>



BBC Bitesize

<https://www.bbc.co.uk/bitesize>



YouTube – Craig 'n Dave

<https://www.youtube.com/craigndave>

Exam: History Paper Length of Exam: 2 hours Date: 1/5/26 AM

What do I need to revise for this exam?

Germany

- ❑ **Part One: Germany and Growth of Democracy** = The Kaiser – parliamentary government, Prussian militarism, industrialisation, socialism, naval laws, Impact of WW1 – Economic problems, defeat, abdication, occupation of the Ruhr and Hyperinflation, Weimar Republic – political unrest 1919-1923 (Spartacists, Kapp Putsch, Munich Putsch), Stresemann recovery (1924-1929)
- ❑ **Part Two: Germany and the Depression** = Growth in support for the Nazis – 1928-1932, Hitler's appeal, Failure of democracy – elections and chancellors (Von Papen, Von Schleicher), Hitler appointed as Chancellor, Establishing the dictatorship – Reichstag Fire, Enabling Act, Elimination of political opposition, trade unions, Night of Long Knives, Fuhrer
- **Part Three: Experiences of the Germans under Nazi Rule** = Economic Changes – benefit, employment, public works, rearmament, self-sufficiency, impact of WW2, Social Changes – Hitler Youth and Education, Women, Religion, Persecution, Final Solution, Control – Goebbels, propaganda, censorship, culture, police state (Himmler, SS, Gestapo), Opposition – White Rose, Swing Youth, Edelweiss Pirates, July 1944 Bomb Plot

Health and the People

- ***Factors which influence Medicine through time – Chance, Government, Communication, Religion, Individuals, Science and Technology, War***
- ❑ **Medieval** - Hippocrates & Galen, Medieval doctors i.e., training, beliefs about causes of illness, Christianity and Islam (Hospitals), Surgery – ideas, techniques, Public Health i.e., towns, monasteries and the Black Death
- ❑ **Renaissance - 're-birth'**, works of Vesalius, Pare and Harvey, opposition to change, New methods of treating disease, Great Plague 1665, growth of hospitals, changes to status and training of surgeons and physicians – John Hunter, Edward Jenner and vaccinations
- ❑ **Industrial** – Pasteur, Koch, Microbes, Anaesthetics (Simpson, chloroform), Antiseptics (Lister, Carbolic Acid), Public Health – cholera epidemics, public health reformers – John Snow, Bazalgette, Public Health Acts and role of local and national governments
- ❑ **Modern** – Magic bullets, pharmaceutical industry – Penicillin and Fleming, Florey and Chain, antibiotic resistance and alternative treatments. Impact of war – plastic surgery, blood transfusions, X Rays, Transplant surgery, radiation therapy, Public Health Reforms – Boer War, Booth and Rowntree, Liberal Reform, Beveridge Report and Welfare State, NHS.

How do I answer the exam questions?

| | |
|---|---|
| Germany / 40 | Medicine /44 |
| 1.How do the authors of Interpretations A and B differ? [4 Marks] CONTENT | 1.How useful (factual) is Source A to an historian studying _____? [8 Marks] CONTENT, PROVENANCE, UTILITY |
| 2.Why do the authors of Interpretations A and B differ? [4 Marks] PROVENANCE | 2. Explain the significance of [8 Marks] i.e., an individual, an event, a contribution, a development (short term, long term) |
| 3.Which interpretation do you find most convincing about ____? [8 Marks] CONTENT – NEVER PROVENANCE | 3. Explain two ways... and... were they similar. [8 Marks] i.e., individuals, developments, events |
| 4.Describe two _____. [4 Marks] | 4. Has the role of [factor] been the main factor in the development of _____ [theme]? [16 Marks + 4 SPAG] |
| 5.In what ways were ____ affected by _____? [8 Marks] | |
| 6.Which of the following was the most important reason for _____? • Bullet Point One • Bullet Point Two [12 Marks] | • FACTORS - Chance, Government, Communication, Religion, Individuals, Science and Technology, War • THEMES – Public Health, Surgery, Medicine, Causes of Illness, Treatment of Illness |

On the Health and the People mock paper there will not be a question 4 [16mark question], instead this will be replaced by two 8mark questions.

Where can I find help with revision?

exercise Books ,BBC Bitesize, Tiktok - @MrAtkoHistoryTeacher, YouTube, CleverLili

What do I need to remember about this exam?

You will be given one unseen fiction text to read. You will need to answer four questions about it.

You will then need to complete a piece of narrative or descriptive writing.

What do I need to revise for this exam?

Section A

- Timings for each question.
- Selecting information from the text.
- Analysing the language in detail.
- Analysing the structure of a text.
- Methods/subject terminology.

Section B

- Descriptive writing.
- Narrative writing
- Using a wide vocabulary.
- Using appropriate language devices.
- Using a range of punctuation.
- Using a range of sentence types.
- Varying paragraph lengths.

Where can I find help with revision?

BBC Bitesize. YouTube.
AQA website for past papers.

What do I need to remember about this exam?

Do diagrams in pencil

Use keywords and vocabulary

Read all the questions as a rough guide 6 marker questions spend 6-10 minutes on.

You can bullet point your answers and answer all questions

Show all your working in calculation and drop in the values into the equations first then rearrange.

What do I need to revise for this exam?**Chemistry Paper 1 (Topics 1-5)**

1. Atomic structure and the periodic table
2. Bonding, structure, and the properties of matter
3. Quantitative chemistry
4. Chemical changes
5. Energy changes

Required practical content which will be examined:

Making soluble salts (Unit 4)

Electrolysis (Unit 4)

Temperature changes (Unit 5)

[Separate ONLY - Neutralisation (Unit 4)]

Topic 1 — Atomic Structure and the Periodic Table

| | |
|--|----|
| Atoms..... | 16 |
| Elements..... | 17 |
| Isotopes..... | 18 |
| Compounds..... | 19 |
| Formulas and Equations..... | 20 |
| Warm-Up & Exam Questions..... | 22 |
| Exam Questions..... | 23 |
| Mixtures..... | 24 |
| Chromatography..... | 25 |
| Filtration and Crystallisation..... | 26 |
| Distillation..... | 28 |
| Warm-Up & Exam Questions..... | 30 |
| The History of the Atom..... | 31 |
| Electronic Structure..... | 33 |
| Development of the Periodic Table..... | 34 |
| The Modern Periodic Table..... | 35 |
| Warm-Up & Exam Questions..... | 36 |
| Metals and Non-Metals..... | 37 |
| Transition Metals..... | 38 |
| Group 1 Elements..... | 39 |
| Group 7 Elements..... | 41 |
| Group 0 Elements..... | 43 |
| Warm-Up & Exam Questions..... | 44 |
| Exam Questions..... | 45 |
| Revision Summary for Topic 1..... | 46 |

Topic 2 — Bonding, Structure and Properties of Matter

| | |
|-----------------------------------|----|
| Ions..... | 47 |
| Ionic Compounds..... | 50 |
| Warm-Up & Exam Questions..... | 52 |
| Covalent Bonding..... | 53 |
| Warm-Up & Exam Questions..... | 56 |
| Polymers..... | 57 |
| Giant Covalent Structures..... | 58 |
| Allotropes of Carbon..... | 59 |
| Metallic Bonding..... | 61 |
| Warm-Up & Exam Questions..... | 62 |
| States of Matter..... | 63 |
| Nanoparticles..... | 66 |
| Warm-Up & Exam Questions..... | 68 |
| Revision Summary for Topic 2..... | 69 |

Topic 3 — Quantitative Chemistry

| | |
|--|----|
| Relative Formula Mass..... | 70 |
| The Mole and Mass..... | 71 |
| Warm-Up & Exam Questions..... | 74 |
| The Mole and Equations..... | 75 |
| Warm-Up & Exam Questions..... | 78 |
| Solutions..... | 79 |
| Concentration Calculations..... | 80 |
| Warm-Up & Exam Questions..... | 81 |
| Atom Economy and Percentage Yield..... | 82 |
| Warm-Up & Exam Questions..... | 85 |
| Revision Summary for Topic 3..... | 86 |

Topic 4 — Chemical Changes

| | |
|---|-----|
| Acids and Bases..... | 87 |
| Titrations..... | 88 |
| Strong Acids, Weak Acids and their Reactions..... | 90 |
| Warm-Up & Exam Questions..... | 93 |
| Metals and their Reactivity..... | 94 |
| Redox Reactions..... | 97 |
| Warm-Up & Exam Questions..... | 99 |
| Electrolysis..... | 100 |
| Electrolysis of Aqueous Solutions..... | 102 |
| Warm-Up & Exam Questions..... | 104 |
| Revision Summary for Topic 4..... | 105 |

Topic 5 — Energy Changes

| | |
|---|-----|
| Exothermic and Endothermic Reactions..... | 106 |
| Bond Energies..... | 108 |
| Warm-Up & Exam Questions..... | 110 |
| Cells..... | 111 |
| Cells and Batteries..... | 112 |
| Fuel Cells..... | 113 |
| Warm-Up & Exam Questions..... | 115 |
| Revision Summary for Topic 5..... | 116 |

Where can I find help with revision?

Educake <https://www.educake.co.uk/>

Seneca learning <https://senecalearning.com/en-GB/>

<https://www.freesciencelessons.co.uk/videos/>

What do I need to remember about this exam?

Do diagrams in pencil

Use keywords and vocabulary

Read all the questions as a rough guide 6 marker questions spend 6-10 minutes on.

You can bullet point your answers and answer all questions

Show all your working in calculation and drop in the values into the equations first then rearrange.

What do I need to revise for this exam?

Topic C1 — Atomic Structure and the Periodic Table

| | |
|----------------------------------|-----|
| Atoms..... | 96 |
| Elements..... | 97 |
| Compounds..... | 98 |
| Chemical Equations..... | 99 |
| Mixtures and Chromatography..... | 100 |
| More Separation Techniques..... | 101 |
| Distillation..... | 102 |
| The History of the Atom..... | 103 |
| Electronic Structure..... | 104 |

| | |
|--|-----|
| Development of the Periodic Table..... | 105 |
| The Modern Periodic Table..... | 106 |
| Metals and Non-Metals..... | 107 |
| Group 1 Elements..... | 108 |
| Group 7 Elements..... | 109 |
| Group 0 Elements..... | 110 |
| Revision Questions for Topic C1..... | 111 |

Topic C2 — Bonding, Structure and Properties of Matter

| | |
|---|-----|
| Formation of Ions..... | 112 |
| Ionic Bonding..... | 113 |
| Ionic Compounds..... | 114 |
| Covalent Bonding..... | 115 |
| Simple Molecular Substances..... | 116 |
| Polymers and Giant Covalent Structures..... | 117 |
| Allotropes of Carbon..... | 118 |
| Metallic Bonding..... | 119 |
| States of Matter..... | 120 |
| Changing State..... | 121 |
| Revision Questions for Topic C2..... | 122 |

Topic C3 — Quantitative Chemistry

| | |
|----------------------------------|-----|
| Relative Formula Mass..... | 123 |
| The Mole..... | 124 |
| Conservation of Mass..... | 125 |
| The Mole and Equations..... | 126 |
| Limiting Reactants..... | 127 |
| Concentrations of Solutions..... | 128 |

Topic C4 — Chemical Changes

| | |
|--|-----|
| Acids and Bases..... | 129 |
| Strong Acids and Weak Acids..... | 130 |
| Reactions of Acids..... | 131 |
| The Reactivity Series..... | 132 |
| Separating Metals from Metal Oxides..... | 133 |
| Redox Reactions..... | 134 |
| Electrolysis..... | 135 |
| Electrolysis of Aqueous Solutions..... | 136 |
| Revision Questions for Topics C3 & C4..... | 137 |

Topic C5 — Energy Changes

| | |
|--|-----|
| Exothermic and Endothermic Reactions..... | 138 |
| More Exothermic and Endothermic Reactions..... | 139 |
| Bond Energies..... | 140 |
| Revision Questions for Topic C5..... | 141 |

Topic C6 — The Rate and Extent of Chemical Change

| | |
|--|-----|
| Rates of Reaction..... | 142 |
| Factors Affecting Rates of Reaction..... | 143 |
| Measuring Rates of Reaction..... | 144 |
| Two Rates Experiments..... | 145 |
| Finding Reaction Rates from Graphs..... | 146 |
| Reversible Reactions..... | 147 |
| Le Chatelier's Principle..... | 148 |
| Revision Questions for Topic C6..... | 149 |

Where can I find help with revision?

Educake <https://www.educake.co.uk/>

Seneca learning <https://senecalearning.com/en-GB/>

<https://www.freesciencelessons.co.uk/videos/>

What do I need to remember about this exam?

Do diagrams in pencil

Use keywords and vocabulary

Read all the questions as a rough guide 6 marker questions spend 6-10 minutes on.

You can bullet point your answers and answer all questions

Show all your working in calculation and drop in the values into the equations first then rearrange.

What do I need to revise for this exam?**Topic C1 — Atomic Structure and the Periodic Table**

| | |
|--|-----|
| Atoms..... | 96 |
| Elements..... | 97 |
| Compounds..... | 98 |
| Chemical Equations..... | 99 |
| Mixtures..... | 100 |
| Chromatography..... | 101 |
| More Separation Techniques..... | 102 |
| Distillation..... | 103 |
| The History of the Atom..... | 104 |
| Electronic Structure..... | 105 |
| Development of the Periodic Table..... | 106 |
| The Modern Periodic Table..... | 107 |
| Metals and Non-Metals..... | 108 |
| Group 1 Elements..... | 109 |
| Group 7 Elements..... | 110 |
| Group 0 Elements..... | 111 |
| Revision Questions for Topic C1..... | 112 |

Topic C2 — Bonding, Structure and Properties of Matter

| | |
|---|-----|
| Formation of Ions..... | 113 |
| Ionic Bonding..... | 114 |
| Ionic Compounds..... | 115 |
| Covalent Bonding..... | 116 |
| Simple Molecular Substances..... | 117 |
| Polymers and Giant Covalent Structures..... | 118 |
| Structures of Carbon..... | 119 |
| Metallic Bonding..... | 120 |
| States of Matter..... | 121 |
| Changing State..... | 122 |

Topic C3 — Quantitative Chemistry

| | |
|--|-----|
| Relative Formula Mass..... | 123 |
| Conservation of Mass..... | 124 |
| More on Conservation of Mass..... | 125 |
| Concentrations of Solutions..... | 126 |
| Revision Questions for Topics C2 & C3..... | 127 |

Topic C4 — Chemical Changes

| | |
|--|-----|
| Acids and Bases..... | 128 |
| Reactions of Acids..... | 129 |
| The Reactivity Series and Extracting Metals..... | 130 |
| Reactions of Metals..... | 131 |
| Electrolysis..... | 132 |
| Electrolysis of Aqueous Solutions..... | 133 |

Topic C5 — Energy Changes

| | |
|--|-----|
| Exothermic and Endothermic Reactions..... | 134 |
| Measuring Energy Changes..... | 135 |
| Reaction Profiles..... | 136 |
| Revision Questions for Topics C4 & C5..... | 137 |

Topic C6 — The Rate and Extent of Chemical Change

| | |
|--|-----|
| Rates of Reaction..... | 138 |
| Factors Affecting Rates of Reaction..... | 139 |
| Measuring Rates of Reaction..... | 140 |
| More on Measuring Rates..... | 141 |
| Graphs of Reaction Rate Experiments..... | 142 |
| Working Out Reaction Rates..... | 143 |
| Reversible Reactions..... | 144 |
| Revision Questions for Topic C6..... | 145 |

Where can I find help with revision?

Educake <https://www.educake.co.uk/>

Seneca learning <https://senecalearning.com/en-GB/>

<https://www.freesciencelessons.co.uk/videos/>

What do I need to remember about this exam?

- Section A - The first 20 marks are multiple choice questions – you must attempt all questions in section A.
- Section B – These are all your written answers. Check the marks available for each question, this will indicate how much you are expected to write/how in depth your answer needs to be.
- 10–12-mark questions will always ask you to **analyse** and **evaluate**. To gain maximum marks include an analysis point along with an evaluation point – aim for 5 of each for a 10-mark question and 6 of each for a 12-mark question.

What do I need to revise for this exam?

| Topic | | Revised |
|--|--|---------|
| 3.2 Food nutrition and health | | |
| Diet, nutrition and health | Health problems and causes of: Bone health – rickets Anaemia | |
| Macronutrients | Protein – what we need it for, where we get protein from, differences between HBV and LBV proteins. Carbohydrates – two groups, what our bodies need carbohydrates for, definition of complex carbohydrate Fibre – what our bodies need it for, where we get it from, problems with not having enough Fats – what is fat made from, what our bodies need fat for, differences between saturated/unsaturated fats, excess fat and fat deficiency | |
| Micronutrients | Fat soluble vitamins Water soluble vitamins Preparation of vegetables to retain vitamins | |
| Nutritional needs | What is happening at the adult life stage, nutrients required and why adults need them Eatwell guide – how much we should eat of each food group | |
| 3.3 Food science | | |
| Raising agents | Biological Chemical | |
| Properties of fats and oils | Plasticity Aeration Fat molecule structure | |
| Fruit and veg | Enzymic browning Uses of acids | |
| Properties of carbohydrates | Dextrinisation Gelatination Functions of flour when baking a cake Gluten – what it is and breadmaking | |
| Cooking of food and heat transfer | The reasons why food is cooked Conduction Convection Radiation | |
| Cooking methods | Water based cooking methods | |

Where can I find help with revision?

Your teacher will provide you with a revision booklet made up of 4 knowledge organisers. The knowledge organisers provide specific topics for revision along with page numbers linking back to your textbook if you need to use it.

What do I need to remember about this exam?

Challenge of Natural Hazards
 Living World
 UK Physical Landscapes – Coasts
 UK Physical Landscapes - Rivers

What do I need to revise for this exam?

| Question 1: Challenge of Natural Hazards | Question 2: The Living World | Question 3: UK Physical Landscapes - Coasts | Question 4: UK Physical Landscapes - Rivers |
|--|--|---|--|
| <p>Including:</p> <p>Tectonic Hazards</p> <ul style="list-style-type: none"> • Plate boundaries and formation of Volcanoes/ Earthquakes • Location of Volcanoes/ Earthquakes • Cause, Effects and Responses to Earthquakes in a HIC (L’Aquila) and LIC (Haiti) and how they differ • Why people live in areas of tectonic activity (Iceland) • Monitoring Volcanoes and Earthquakes <p>Weather Hazards</p> <ul style="list-style-type: none"> • Structure, formation and location of Tropical Storms • Example of the cause, effect and response to a tropical storm (Hurricane Katrina) • Monitoring tropical storms • Extreme weather in the UK • Cause, effect and response to an extreme weather event in the UK (Beast from the East) <p>Climate Change</p> <ul style="list-style-type: none"> • Physical and human causes of climate change • Effects of climate change • Mitigation and Adaptation responses to climate change | <p>Including:</p> <ul style="list-style-type: none"> • Location of Biomes • Nutrient Cycle and Food Webs • Factors that affect the climate in different biomes <p>Tropical Rainforests</p> <ul style="list-style-type: none"> • Location, climate characteristics, soil structure and reasons for biodiversity • Plants structure and types found in the rainforest and how they adapt to the conditions • Animals found in the rainforest and how they adapt to the conditions <p>Case Study: Amazon Rainforest</p> <ul style="list-style-type: none"> • Causes of deforestation • Effects of deforestation • Sustainable management techniques to prevent deforestation <p>Cold Environments</p> <ul style="list-style-type: none"> • Location, climate characteristics, soil structure and reasons for biodiversity • Plants structure and types found in the rainforest and how they adapt to the conditions • Animals found in the rainforest and how they adapt to the conditions • Example of the opportunities and challenges in cold environments (Alaska) • Issues with fragility in cold environments • Sustainable management techniques to protect cold environments | <p>Including:</p> <ul style="list-style-type: none"> • Processes that effect coasts (Weathering, Erosion, Mass Movement, Transportation, Longshore Drift) • Geology of the coastline • Formation of features by erosion (headlands and bays, wave cut notches, wave cut platforms, caves, arches, stacks and stumps) • Formation of features by deposition (Beaches, sand dunes, spits, bars and tombolo’s) • Coastal Management techniques • Issues with Coastal Erosion (Holderness Coastline) | <p>Including:</p> <ul style="list-style-type: none"> • Processes that effect rivers (Erosion, Transportation) • The long and cross profile of a river • Formation of features by erosion (V-Shaped Valley, Waterfalls, Plunge Pools, Gorges) • Formation of features by erosion and deposition (Meanders and Oxbow Lakes) • Formation of features by deposition (Floodplains, Levees, Estuaries) • Causes of Flooding and the drainage basin system • Flood Hydrographs • Flood Management techniques • Issues and solutions to River Flooding (Somerset Levels) |

Where can I find help with revision?

Teams has Knowledge organisers, Revision PowerPoints and Revision Cards

www.internetgeography.net/ffc (Click on each week 1-7 to help revise each topic)

| Topic | Sparx Code |
|---|-------------------|
| Using a written method to divide with decimals | U868 |
| Adding and subtracting mixed numbers | U793 |
| Volume and surface area of cubes and cuboids. | U929, U786 |
| Drawing and interpreting frequency polygons | U840 |
| Venn diagrams | U476 |
| Venn diagrams with set notation | U748 |
| Interpreting scatter graphs | U277 |
| Using lines of best fit | U128 |
| Finding original values in percentage calculations | U286 |
| Finding the volume of cylinders, Calculating with pressure | U915, U527 |
| Solving simultaneous equations graphically | U836 |
| Angles in polygons, Constructing and solving equations | U427, U599 |
| Simplifying expressions using index laws | U662 |
| Tree diagrams for independent events | U558 |
| Constructing direct proportion equations | U407 |
| Index rules with negative indices | U694 |
| Indices of the form a/b | U772 |
| Interpret equations of straight lines, parallel & perpendicular lines | U669 U898 |
| Finding the surface area of spheres, Simplifying surds | U893, U338 |
| Changing the subjects of formulae | U556 |
| Calculating with ratios and algebra | U676 |
| Using the product rule for counting | U369 |
| Finding inverse functions | U996 |
| Finding composite functions | U448 |
| Circle theorems | U459, U489 |
| Trigonometry in 3D shapes and exact values | U170, U319 |
| Rationalising denominators containing two terms | U281 |
| Solving quadratic inequalities | U133 |

| | |
|--|------------|
| Converting between fractions, decimals and percentages | U888 |
| Finding fractions of shapes | U679 |
| Understanding and ordering decimals | U435 |
| Adding and subtracting with negative numbers | U742 |
| Solving equations with one step | U755 |
| Identifying parts of circles | U767 |
| Finding factors and using divisibility tests | U211 |
| Angles on a line and about a point | U390 |
| Understanding, measuring and drawing angles | U447 |
| Reading and plotting coordinates | U789 |
| Reading and plotting coordinates | U789 |
| Calculating midpoints | U933 |
| Plotting horizontal and vertical lines | M797 |
| Multiply decimals, Solve direct proportion word problems | U293, U721 |
| Adding and subtracting with integers | U417 |
| Estimating calculations | U225 |
| Estimating calculations | U225 |
| Calculating the mean | U291 |
| Simplifying algebraic fractions by cancelling common factors | U103 |
| Simplifying expressions by collecting like terms | U105 |
| Factorising into one bracket | U365 |
| Finding percentages of amounts without a calculator | U554 |

| | |
|--|------------|
| Converting between ratios, fractions and percentages | U176 |
| Finding percentages of amounts, Finding fractions of amounts | U554, U881 |
| Multiplying fractions | U475 |
| Solving direct proportion word problems | U721 |
| Adding & subtracting integers, Writing numbers as percentages of other numbers | U417, U925 |
| Using algebraic notation | U613 |
| Position-to-term rules for arithmetic sequences | U498 |
| Using a written method to divide with decimals | U868 |
| Adding and subtracting mixed numbers | U793 |
| Find the surface area of cubes & cuboids, Find the volume of cubes & cuboids | U929, U786 |
| Drawing and interpreting frequency polygons | U840 |
| Venn diagrams | U476 |
| Venn diagrams with set notation | U748 |
| Interpreting scatter graphs | U277 |
| Using lines of best fit | U128 |
| Finding original values in percentage calculations | U286 |
| Finding the volume of cylinders, Calculating with pressure | U915, U527 |
| Solving simultaneous equations graphically | U836 |
| Index rules with positive indices, Index rules with negative indices | U235, U694 |
| Using the exact values of trigonometric ratios | U627 |
| Tree diagrams for independent events | U558 |

| | |
|--|------------|
| Top | Sparx Code |
| Rounding integers | U480 |
| Converting between fractions, decimals and percentages | U888 |
| Converting units of length, mass and capacity | U388 |
| Using algebraic notation | U613 |
| Finding the lowest common multiple | U751 |
| Using probability phrases | U803 |
| Using probability phrases | U803 |
| Estimating and measuring | U102 |
| Understanding, measuring and drawing angles | U447 |
| Line and shape properties | U121 |
| Drawing and interpreting scale diagrams | U257 |
| Term-to-term rules | U213 |
| Writing and simplifying ratios | U687 |
| Using and interpreting linear real-life graphs | U638 |
| Use & interpret linear real-life graphs, Calculate with time | U638, U902 |

| | |
|---|------------|
| Interpreting frequency tables and two-way tables | U981 |
| Reflection | U799 |
| Reflection | U799 |
| Finding fractions of amounts with a calculator | U916 |
| Find volumes of cubes and cuboids, Convert units of length, mass and capacity | U786, U388 |
| Writing probabilities as fractions, Ordering fractions | U408, U746 |
| Calculating with speed | U151 |
| Calculating the mean | U291 |
| Solving direct proportion word problems | U721 |
| Solving direct proportion word problems | U721 |
| Frequency trees | U280 |
| Frequency trees, Writing numbers as percentages of other numbers | U280, U925 |
| Using a calculator | U926 |
| Prime factor decomposition | U739 |

| Topic | Sparx Code |
|---|-------------------|
| Using a calculator | U926 |
| Prime factor decomposition | U739 |
| Sharing amounts in a given ratio | U577 |
| Reading and drawing inequalities on number lines | U509 |
| Solving single inequalities | U759 |
| Area of triangles, Area of rectangles, Constructing and solving equations | U945, U226, U599 |
| Find percentages of amounts with a calculator, Share amounts in a given ratio | U349, U577 |
| Finding error intervals | U657 |
| Compound interest calculations | U332 |
| Drawing cumulative frequency graphs | U182 |
| Interpreting cumulative frequency graphs | U642 |
| Calculating experimental probabilities, Tree diagrams for independent events | U580, U558 |
| Calculating experimental probabilities | U580 |
| Solving simultaneous equations using elimination | U760 |
| Using Pythagoras' theorem in 2D, Finding the circumference of circles | U385, U604 |
| The sine rule | U952 |
| Simplifying algebraic fractions by factorising into two brackets | U294 |
| Position-to-term rules for quadratic sequences | U206 |
| Drawing histograms with unequal class widths, Interpreting histograms | U814, U983 |
| Interpreting histograms | U983 |
| Finding approximate solutions to equations using iteration | U168 |
| Combining ratios, Calculating with ratios and algebra | U921, U676 |
| Finding bounds for calculations, Finding unknown angles in right-angled triangles | U587, U545 |
| Solving geometric problems using vectors | U781 |
| Transforming graphs | U455 |
| Tree diagrams for independent events | U558 |
| Finding the perimeter and area of similar shapes | U630 |
| Pythagoras' theorem, Expanding brackets with surds, Area of rectangles | U385, U499, U934 |

What do I need to remember about this exam?

- There are 3 questions, and all 3 questions need to be answered. There will be a choice of 2 questions for the 90-word task and a choice of 2 questions for the 150-word task. Only complete 1 x 90 word and 1 x 150 word.
- Do not forget to complete the Translation question (Q3)
- When writing it is essential to use 3-time frames (past, present & future).
- Justify opinion phrases using a connective such as *porque / dado que / justo que / ya que*.
- Don't be too repetitive, do not repeat the same vocabulary / adjectives more than twice.
- Think about what you can say rather than what you want to say.
- **Can you upgrade your work? Use a variety of complex structures where possible.**

What do I need to revise for this exam?

- Key Vocabulary.
- Grammar – you must revise tense formation.

This will help you with ensuring accurate grammar is included!

| Past | Present | Future |
|---|--|--|
| Time Phrases - Past ayer - yesterday el año pasado - last year cuando era pequeña - when I was younger | Time Phrases - Present normalmente - normally todos los días - every day cada noche - every evening | Time Phrases - Future mañana - tomorrow el día siguiente - the next day el fin de semana próximo - next weekend en el futuro - in the future |
| Key Verbs Era - I used to be Iba - I used to go / Fui - I went Fue - it was Tuve - I had / Tenía - I used to have Hice - I did Jugué - I played Vi - I saw Tomé (el sol) - I sunbathed Comí - I ate Bebí - I drank Viví - I lived / Vivía - I used to live Trabajé - I worked Estudí - I studied Ayudé - I helped Me gustaba - I used to like Odaba - I used to hate | Key Verbs Soy - I am Voy - I go Es - it is Tengo - I have Hago - I do Juego - I play Veo - I see Tomo (el sol) - I sunbathe Como - I eat Bebo - I drink Vivo - I live Trabajo - I work estudio - I study ayudo - I help me gusta - I like Odio - I hate | Key Verbs Seré - I will be / sería - I would be Iría - I would go Sería - it would be Tendría - it would have Haría - I would do Jugaría - I would play Vería - I would see Tomaría (el sol) - I would sunbathe Comería - I would eat Bebería - I would drink Viviría - I would live Trabajaría - I would work Estudiaría - I would study Ayudaría - I would help Me gustaría - I would like Odiaría - I would hate |
| Excellent Vocab to know muy - very mucho - a lot bastante - quite poco - a little sin embargo - however | Excellent expressions to use donde se puede - where you can donde es posible - where it is possible si tuviera la oportunidad - if I had the opportunity si tuviera más tiempo - if I had more time | Your own additions |

Remember to use spicy phrases to upgrade your work!

| Instead of writing this... | Write this... |
|---|--|
| ...es... | ...puede ser ... |
| <i>Mi hermano es molesto</i> | <i>Mi hermano puede ser molesto</i> |
| Me gusta... | Siempre me ha gustado... |
| <i>Me gusta la historia</i> | <i>Siempre me ha gustado la historia</i> |
| No me gusta... | No aguanto ... |
| <i>No me gusta el fútbol</i> | <i>No aguanto el fútbol</i> |
| ... porque es divertido | ... porque me hace reír |
| <i>Me gusta ver las comedias porque es divertido.</i> | <i>Me gusta ver las comedias porque me hacen reír.</i> |
| ... porque es aburrido | ... porque me aburre |
| <i>Nunca leo porque es aburrido</i> | <i>Nunca leo porque me aburre</i> |
| ... porque es relajante | ... porque me relaja |
| <i>Me gusta hacer deporte porque es relajante</i> | <i>Me gusta hacer deporte porque me relaja</i> |
| Normalmente | Suelo ... |
| <i>Normalmente voy al cine con mis amigos</i> | <i>Suelo ir al cine con mis amigos</i> |

Where can I find help with revision?

- **EZigZag Revision** <https://erevision.uk/> you will have received an email with instructions to follow to set up an account. This is an excellent resource to practise all 3 examined skills (listening, reading and writing).
- **Languagenut**. The department has paid for all pupils in the school to have a languagenut account. Pupils have been given their username and password and if anyone has forgotten it, they should ask their teacher to reset it. Revision has been assigned on the app / website and pupils can complete extra revision across all topics.

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| | INFINITIVE | PAST | PRESENT | FUTURE |
|----------------------|--|---|--|---|
| VERBS | Aller Jouer Faire Prendre S'amuser S'entendre | Je suis allé J'ai joué J'ai fait J'ai pris Je me suis amusé Je me suis entendu | Je vais Je joue Je fais Je prends Je m'amuse Je m'entends | J'irai Je jouerai Je ferai Je prendrai Je m'amuserai Je m'entendrai |
| TIME-PHRASES | | Hier Le week-end dernier La semaine dernière Il y a deux ans Quand j'étais petit | D'habitude Normalement Tous les jours Le lundi Le matin | Demain Le week-end prochain La semaine prochaine Dans deux ans Quand je serai plus âgé |
| OPINIONS | | C'était J'ai adoré, j'ai aimé Je n'ai pas aimé, j'ai détesté J'ai eu horeur de J'ai pensé que | C'est J'adore, j'aime Je n'aime pas, je déteste J'ai horreur de Je pense que | Ce sera J'adorerai, j'aimerais Je n'aimerai pas, je détesterai J'aurai horreur de Je penserai que |
| SPICY PHRASE! | Ce serait mon rêve devenu réalité | | | |
| QUANTIFIERS | Extrêmement, très, vraiment, assez, un peu | | | |
| SEQUENCERS | D'abord, puis, ensuite, après, finalement | | | |

Remember to use appropriate phrases to upgrade your writing

| Instead of writing this... | Write this. | Instead of writing this... | Write this. |
|---|--|---|---|
| Est Mon frère est sympa | Peut être Mon frère peut être sympa | On est allé On est allé au parc | On a décidé d'aller On a décidé d'aller au parc |
| J'aime J'aime les maths | J'ai toujours aimé J'ai toujours aimé les maths | Je voudrais Je voudrais danser | J'ai envie de J'ai envie de danser |
| Je n'aime pas Je n'aime pas le sport | J'ai horreur de J'ai horreur du sport | Je pense que Je pense que c'est nul | On dirait que On dirait que c'est nul |
| Car c'est ennuyeux | Car ça m'ennuie | À l'avenir À l'avenir je voyagerai | Quand je serai plus âgé Quand je serai plus âgé, je voyagerai |
| Car c'est relaxant | Car ça me détend | Il n'y a pas de Il n'y a pas de parc | Il n'y a ni...ni... Il n'y a ni parc ni cinéma |
| D'habitude D'habitude je vais en France | J'ai l'habitude de J'ai l'habitude d'aller en France | Dans mon temps libre Dans mon temps libre, je sors avec mes copains | Si j'ai le temps Si j'ai le temps, je sors avec mes copains |

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What do I need to revise for this exam?

| Topic | Sparx Code |
|--|------------|
| Understanding and ordering integers | U600 |
| Converting between fractions, decimals and percentages | U888 |
| Simplifying expressions containing a single variable | U105 |
| Converting units of length, mass and capacity | U388 |
| Ordering negative numbers | U947 |
| Finding areas using grids | M900 |
| Finding perimeters using grids | M920 |
| Using probability phrases | U803 |
| Using probability phrases | U803 |
| Probabilities of mutually exclusive events | U638 |
| Line and shape properties | U121 |
| Properties of 3D shapes | U719 |
| Calculating the median | U456 |
| Calculating the range | U526 |
| Drawing bar charts | U363 |
| Reading, converting and calculating with time | U902 |
| Constructing and solving equations | U599 |
| Finding averages from diagrams | U854 |
| Interpreting pie charts | U172 |
| Interpreting distance-time graphs | U914 |
| Interpreting distance-time graphs | U914 |
| Plotting distance-time graphs | U403 |

| | |
|---|-------------------|
| Calculating speed from distance-time graphs | U462 |
| Solving direct proportion word problems | U721 |
| Using equivalent ratios to find unknown amounts | U753 |
| Rotation | U696 |
| Measuring and drawing bearings, Drawing and interpreting scale diagrams | U525 , U257 |
| Solving equations with two or more steps | U325 |
| Simple interest calculations | U533 |
| Simplifying expressions using index laws | U662 |
| Simplifying expressions using index laws | U662 |
| Expanding single brackets | U179 |
| Finding percentages of amounts with a calculator | U349 |
| Finding percentages of amounts with a calculator | U349 |
| Angles on parallel lines, Geometric proofs with angle facts | U826 , U471 |
| Solving inverse proportion word problems | U357 |
| Finding the HCF and LCM using prime factor decomposition | U520 |
| Finding the HCF and LCM using prime factor decomposition | U520 |
| Calculating with rates, Reading, converting and calculating with time | U256 , U902 |
| Interpreting graphs of quadratic functions | U667 |
| Solving quadratic equations graphically | U601 |
| Calculating with density | U910 |
| Writing and simplifying ratios, Standard form with a calculator | U687 , U161 |
| Using standard form with negative indices | U534 |
| | |

What do I need to revise for this exam?

| Topic | Sparx Code |
|--|------------|
| Simplifying expressions using index laws | U662 |
| Expanding single brackets | U179 |
| | |
| Finding percentages of amounts with a calculator | U349 |
| Angles on parallel lines, Geometric proofs with angle facts | U826, U471 |
| Solving inverse proportion word problems | U357 |
| Finding the HCF and LCM using prime factor decomposition | U520 |
| Calculating with rates, Reading, converting and calculating with time | U256, U902 |
| Interpreting graphs of quadratic functions | U667 |
| Solving quadratic equations graphically | U601 |
| Calculating with density | U910 |
| Finding percentages of amounts with a calculator | U349 |
| Finding unknown sides in right-angled triangles | U283 |
| Drawing box plots | U879 |
| Comparing populations using box plots and cumulative frequency graphs | U507 |
| Expanding triple brackets | U606 |
| Writing algebraic proofs | U582 |
| The cosine rule, Finding the area of sectors | U591, U373 |
| Factorising the difference of two squares | U963 |
| Factorising the difference of two squares, Writing algebraic proofs | U963, U582 |
| Enlargement by a positive or negative scale factor | U134 |
| Estimating gradients of non-linear graphs using tangents | U800 |
| Calculating speed from distance-time graphs | U462 |
| Finding the surface area of frustums | U334 |
| Graphs of exponential functions | U229 |
| Converting recurring decimals to fractions | U689 |
| Factorising to solve quadratic equations, Adding & subtracting algebraic fractions | U960, U685 |
| Identifying parallel vectors, Constructing and solving simultaneous equations | U660, U137 |
| Equations of circles and tangents | U567 |
| Calculating with ratios and algebra, Multiplying algebraic fractions | U676, U457 |

What do I need to remember about this exam?

You need to answer a question on 'Macbeth' in Section A. There are 4 SPAG marks available for this question. You should spend approximately 50 minutes answering this.

You then need to answer the 'A Christmas Carol' question in Section B. You should spend approximately 50 minutes answering this.

What do I need to revise for this exam?

What do I need to revise for this exam?

For both 'Macbeth' and 'A Christmas Carol' you need to have a confident understanding of:

- The plot
- The main characters
- Key themes
- Context
- Key quotations (learn some).

Skills you need to include:

- Analysing the language of the text. Picking key words from quotations to closely analyse.
- Including subject terminology when discussing the methods used by the writer.
- Having a clear line of argument in your response.
- Making relevant links to context.

Where can I find help with revision?

BBC Bitesize

YouTube Mr Bruff videos

AQA website for past papers

Your own copies of the texts/exercise books.

What do I need to remember about this exam?

1. Read all instructions carefully. Be clear as to exactly what each question wants.
2. Answer in English.
3. Don't panic – if you stay calm you will be able to understand something. Be positive. Concentrate on what you do understand.
4. Ensure your answer is clear e.g. do not try to change an 'A' to a 'B'. Cross out any incorrect answers and replace it with the correct answer.
5. Use your knowledge of grammar. For example, it may be important to know whether someone is talking about the past or the future.
6. Use your time wisely. Stay calm and ensure you are preparing yourself for what you will hear. Annotate the question. What are you listening for? Set the context.
7. Use the example – how much are you required to write? Do you need an infinitive + a noun? The example will show you the level of detail required. Look at the marks the question is worth – if it is worth two marks you will probably need to make two points etc.
8. Be aware in listening – 1a / 1b = you will hear 1a x2 then 1b x2 but 1.1 / 1.2 / 1.3 = you will hear all of the text for that question twice and then move on to the next question.
9. As part of the listening exam, there is a dictation. Write down the 5 sentences that you will hear 3 times. Think about the meaning of the sentence. Check for spelling and grammar e.g. feminine mark? Plural mark?
10. Do not leave gaps – if you really have absolutely no idea – look at the example for guidance and then write an answer for your question – try to make an educated guess.

What do I need to revise for this exam?

Everything! You need vocabulary on all topics for this component!

Hints and Tips for success:

- Vocabulary learning is key. It is essential to learn the vocabulary we have been covering in class and anything from the wider topic which may show from the class notes. If a word comes up that you do not know, use your strategies. Look for cognates and near cognates, use process of elimination and word families. Remember to look at your vocab lists and practise on languagenut.

Where can I find help with revision?

Revising vocabulary for the listening & reading exams

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- Use BBC bitesize and quizlet (Sign up for free via the attached welcome link or you will have to pay <https://quizlet.com/join/T3ZUzMegr>)

Exam: French Reading Length of exam: 1 hour Date: 17 June PM

What do I need to remember about this exam?

We recommend starting with the last question – translation as it is worth the most marks – ensure you complete the paper and get these valuable marks.

Translation to English

- Annotate the text – what tense are you in? What is the person of the verb? Check your translation against the target language text and ensure you have translated the correct person and the correct time frame.
- Proof read – you are a fluent English speaker, if it does not make sense something is wrong – look over it and correct.
- Attempt every part – marks are available for various areas – secure the marks by making educated guesses where needed.

Rest of Reading Paper

1. Read all instructions carefully. Be clear as to exactly what each question wants.
2. Answer in English.
3. Don't panic – if you stay calm you will be able to understand something. Be positive. Concentrate on what you do understand. We have spent a great deal of time working towards analysing a text. You can do this, follow your training!
4. Ensure your answer is clear e.g. do not try to change an 'A' to a 'B'. Cross out any incorrect answers and replace it with the correct answer.
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- Translation to English - proofread. If it does not make sense to you who are fluent in English, it is incorrect and so you must check it over. Check the verbs- are you using the correct person of the verb?

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9. Answers in target language in listening paper – this is simply transcription. Use your phonics, be as accurate as you can.
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**Success doesn't
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occasionally, but what you
do consistently.**

