Preparing for Trial Assessments

Week commencing 29th November 2021

Revision Tips

Revision Topics

Revision Wellbeing

Revision Tips

Try breaking it up into chunks and creating a daily timetable

so you know what you want to study when. This can make revision feel less overwhelming and much more manageable.

Be realistic about what you can achieve in a day

An unrealistic revision plan won't help you and will put you under unnecessary stress.

Make sure you take regular breaks from studying

Your brain cannot concentrate for hours at a time.

Not everyone studies the same way

Some people prefer to read, others find it helpful to make notes or draw diagrams, while others prefer to talk things through. Do what works for you.

Focus on you and don't compare yourself to others

It can be really stressful when you think everyone is doing better than you, spending more time on revision than you, or just not stressing out as much as you. But we're all different and that's ok. Remember, your friends don't have their results guaranteed – life is unpredictable – and they might well be feeling just as worried as you are.

Click here for study skills PowerPoint used in form time which lists the different methods you could use to help you revise.

Revision Topics

- English
- Maths
- Science
- History
- Geography
- EP
- Art/ Photography
- Dance
- Music
- ICT
- Computer Science
- Business GCSE
- Food
- Design
- Health and Social Care
- PE

Follow the links below to access Key Stage 4 Knowledge Organisers:

https://www.montsaye.northants.sch.uk/students/homework/knowledge-organisers/yer-10-knowledge-organisers/

https://www.montsaye.northants.sch.uk/students/homework/knowledge-organisers/year-11-knowledge-organisers/

Revision Wellbeing

If you need support or advice, please let Mrs George or Mrs Walters-Morgan know and we can help guide you.

fgeorge@montsaye.northants.sch.uk

https://www.youngminds.org.uk/young-person/coping-with-life/exam-stress/

https://www.headspace.com/articles/study-buddy-focus-featured-collection

https://www.bbc.co.uk/programmes/articles/YfRzhXDKSZQxFVn30TlXBj/your-mental-health-toolkit

Revision Topics

Dance (BTEC Performing Arts)

- This will be a practical assessment.
- Students will perform their Component 2 solo performance.

Resources

Follow the link below to access resources on our class team. You will find footage from lessons and links to the professional repertoire to help with your rehearsals.

https://teams.microsoft.com/_#/school/files/General?threadId=19%3AtxfN7l5BmRNTUPqyUASOgVoAkmQuvKhPaPCPNkjNbo81%40thread.tacv2&ctx=channel&context=Class%2520Materials&rootfolder=%252Fsites%252FSection_MA-2021-11A-Da1%252FClass%2520Materials

ERA Study

Revision Topics

English

- **GCSE Language Paper 1**
- Section A – reading (one fiction source)
- Q1 – list 4 things…
- Q2 – how does the writer use language to…?
- Q3 – how has the writer structured this text to interest you as a reader?
- Q4 – evaluation (responding to a statement)
- Section B – writing to describe/narrative

- **GCSE Language Paper 2**
- Section A – reading (two non-fiction sources)
- Q1 – true/false statements
- Q2 – writing a summary
- Q3 – how does the writer use language to…?
- Q4 – comparing perspectives
- Section B – writing to argue, persuade, inform

- **GCSE Literature Paper 1**
- *A Christmas Carol* (an extract will be provided as part of the question)
- *An Inspector Calls*
-

- **GCSE Literature Paper 2** (SPaG is assessed on this paper)
- Shakespeare – *Romeo and Juliet* (an extract will be provided as part of the question)
- Unseen poetry (part 1: unseen poem essay/part 2: unseen poetry comparison)

ERA Study

Revision Topics

Maths

Please click on the links below to find your Maths revision checklist:

Foundation Checklist

Higher Checklist

ERA Study

www.corbettmaths.com/contents

GCSE Foundation Tier AQA Checklist 9-1

Revision Topics

- Angle Facts - Video 35, 30, 34, 39
- Types of Angle - Video 38
- Angles in Parallel Lines - Video 25
- Angles in a Triangle - Video 37
- Angles in a Quadrilateral - Video 33
- Angles in Polygons - Video 32
- Bearings - Videos 26, 27
- Perimeter - Video 241
- Area of Rectangles/Triangles - Videos 45, 49
- Area of a Trapezium - Video 48
- Units - Videos 347, 349
- Line Symmetry - Video 316
- Rotational Symmetry - Video 317
- Constructions - Videos 72, 78, 83
- Loci - Videos 75, 76, 77
- Faces, Edges, Vertices - Videos 5, 3
- Views and Elevations - Video 354
- Surface Area - Video 310
- Speed, Distance, Time - Video 299
- Density - Video 384
- Pressure - Video 385
- Timetables - Video 320
- Distance Charts - Video 318
- Volume of a Cuboid - Video 355
- Volume of a Prism - Video 356
- Translations - Video 325, 326
- Reflections - Videos 272, 273
- Rotations - Video 275
- Enlargements - Videos 104, 105, 107
- Parts of the Circle - Video 61
- Circumference - Video 60
- Area of a Circle - Video 59
- Volume of a Cylinder - Video 357
- Pythagoras - Video 257
- Trigonometry - Videos 329, 330, 331
- Exact Trig Values - Video 341
- Arc Length - Video 58
- Area of a Sector - Video 46
- Similar Shapes (sides) - Video 292
- Congruent Shapes - Video 67
- Volume of a Sphere/Cone - Videos 359, 361
- Surface area of Sphere/Cone - Videos 313, 314
- Vectors - Video 353a
- Nets - Video 4

- Multiplication - Video 199, 200
- Division - Video 98
- Addition - Video 6
- Subtraction - Video 304
- Rounding - Video 276, 277a, 277b, 278
- Estimation - Video 215
- Using Calculations - Video 222a
- BODMAS - Video 211
- Ordering Decimals/Fractions - Video 95, 144
- Arithmetic with Decimals - Videos 90, 91, 92, 93, 94
- Multiples and Factors - Videos 220, 216
- Prime Numbers - Video 225
- Square Numbers and Square Roots - Videos 226, 228
- Cube Numbers and Cube Roots - Videos 212, 214
- Product of Primes - Video 223
- LCM/HCF - Videos 218, 219, 224
- Indices - Videos 172, 174
- Negative Indices - Video 175
- Standard Form - Video 300, 302, 303
- Fractions of Amounts - Video 137
- Adding Fractions - Video 133
- Multiplying Fractions - Video 142
- Dividing Fractions - Video 134
- Fractions, Decimals, Percentages - Videos 121 to 129
- Percentages of Amounts - Videos 234, 235
- Compound Interest - Video 236
- Reverse Percentages - Video 240
- Ratio - Videos 269, 270, 271, 271a, 271b, 271c
- Currency - Video 214a
- Recipes - Video 256
- Negative Numbers - Videos 205-209
- Place Value - Video 222
- Function Machine - Video 386
- Best Buys - Video 210
- Error Intervals - Video 377
- Proportion - Videos 255a, 254
- Use of a Calculator - Video 352

Corbett maths

- Frequency Trees - Video 376
- Two-way Tables - Video 319
- Pictograms - Videos 161, 162
- Bar Charts - Videos 147, 148
- Frequency Polygons - Videos 155, 156
- Line Graphs - Video 160
- Pie Charts - Video 163, 164
- Probability - Videos 245, 246, 248
- Listing Outcomes - Video 253
- Scatter Graphs - Videos 165 to 168
- Mode - Video 56
- Median - Video 50
- Mean - Video 53
- Range - Video 57
- Estimated Mean - Video 55
- Venn Diagrams - Video 380
- Tree Diagrams - Video 252
- Reading Tables - Video 387
- Coordinates - Video 84
- Writing Expressions - Video 16
- Collecting Like Terms - Video 9
- Multiplying Terms - Video 18
- Sequences - Videos 286, 287, 290
- The nth Term - Video 288
- Expanding Brackets - Videos 13, 14
- Factorising - Video 117
- Factorising Quadratics - Videos 118, 120
- Solving Equations - Video 110, 113
- Forming Equations - Videos 114, 115
- Inequalities - Videos 177, 178, 179
- Conversion Graphs - Video 151
- Drawing Linear Graphs - Video 186
- $y = mx + c$ - Video 191
- Parallel graphs - Video 196
- Substitution - Video 20
- Changing the Subject - Video 7
- Simultaneous Equations - Video 295
- Quadratic Graphs - Video 264
- Cubic Graphs - Video 344
- Reciprocal Graphs - Video 346

www.corbettmaths.com/contents

GCSE Higher Tier AQA Checklist 9-1

Corbett maths

Revision Topics

- Adding Fractions - Video 133
- Multiplying Fractions - Video 142
- Dividing Fractions - Video 134
- Estimation - Video 215
- Best Buys - Video 210
- Currency - Video 214a
- Conversion Graphs - Video 151, 152
- LCM/HCF - Videos 218, 219
- Indices - Videos 172, 174
- Indices (fractional/negative) - Videos 173, 175
- Standard Form - Videos 300, 301, 302, 303
- Percentages of Amounts - Videos 234, 235
- Percentage change - Video 233
- Compound Interest - Video 236
- Reverse Percentages - Video 240
- Recurring Decimals to Fractions - Video 96
- Ratio - Videos 270, 271, 271a, 271b, 271c
- Direct Proportion - Video 254
- Inverse Proportion - Video 255
- Limits of Accuracy - Videos 183, 184
- Surds - Videos 305, 306, 307, 308
- Product Rule for Counting - Video 383
- Error Intervals - Video 377
- Collecting Like Terms - Video 9
- Expanding a Bracket - Video 13
- Expanding 2/3 Brackets - Videos 14, 15
- Factorising - Video 117
- Factorising Quadratics - Videos 118, 119, 120
- Algebraic Fractions - Videos 21, 22, 23, 24
- Sequences (nth term) - Videos 288, 289
- nth term (quadratics) - Video 388
- Substitution - Video 20
- Equations - Videos 110, 113, 114, 115
- Changing the Subject - Videos 7, 8
- Inequalities - Videos 177, 178, 179
- Inequalities (Regions) - Video 182
- Quadratic Inequalities - Video 378
- Linear Graphs - Videos 191, 186, 189, 194
- Parallel or Perpendicular Lines - Videos 196, 197
- Simultaneous Equations - Video 295/298

- Angles in Parallel Lines - Video 25, 39
- Bearings - Video 26, 27
- Angles in Polygons - Video 32
- Constructions - Video 78, 72, 79, 80, 70
- Loci - Videos 75, 76, 77
- Area of a Trapezium - Video 48
- Circumference - Video 60
- Area of a Circle - Video 40
- Arc Length - Video 58
- Area of a Sector - Video 48
- Volume of a Cylinder - Video 357
- Pythagoras - Video 257, 259
- Trigonometry - Videos 329, 330, 331
- 3D Trig and Pythagoras - Videos 259, 332
- Exact Trig Values - Video 341
- Volume of a Prism - Video 356
- Volume of Cone/Pyramid/Sphere - Videos 359-361
- Surface Area of a Prism - Video 311
- Surface Area of Cone/Sphere - Videos 314, 313
- Translations - Video 325
- Reflections - Video 272
- Rotations - Video 275
- Enlargements - Videos 104, 106, 107, 108
- Similar Shapes - Videos 292, 293a, 293b
- Circle Theorems - Videos 64, 65
- Sine Rule - Video 333
- Cosine Rule - Videos 335, 336
- 1/2abSinC - Video 337
- Vectors - Video 353
- Travel Graphs - Video 171
- Speed, Distance, Time - Video 299
- Density - Video 384
- Pressure - Video 385
- Geometric Proof - Video 366
- Congruent Triangles - Video 67
- Invariant Points - Video 392

- Frequency Trees - Video 376
- Two-way Tables - Video 319
- Pie Charts - Videos 163, 164
- Scatter Graphs - Videos 165, 166
- Histograms - Video 157, 158, 159
- Frequency Polygons - Videos 155, 156
- Cumulative Frequency - Videos 153, 154
- Box Plots - Video 149
- Estimated Mean - Video 55
- Tree Diagrams - Video 252
- Conditional Probability - Video 247
- Venn Diagrams - Video 380

- Equation of a Circle - Video 12
- Equation of a tangent - Video 372
- Instantaneous rates of change - Video 390a
- Average rates of change - Video 390b
- Area under a curve - Video 389
- Composite Functions - Video 370
- Inverse Functions - Video 369
- Quadratic Graphs - Video 264
- Trigonometric Graphs - Videos 338, 339
- Reciprocal Graphs - Video 346
- Exponential Graphs - Video 345
- Algebraic Proof - Video 365
- Quadratic Formula - Video 267
- Completing the Square - Video 10, 371
- Transformations of Graphs - Video 323
- Iteration - Video 373

Revision Topics

Science

Trilogy (Higher)

Trilogy (Foundation)

Biology (Higher)

Biology (Foundation)

Chemistry (Higher)

Chemistry (Foundation)

Physics (Higher)

Physics (Foundation)

Please note that these topic lists are intended to be a supportive guide rather than a complete list of topics included in the mock exams. Your teacher will warn you that there may be a question on a paper that you have not yet studied. Don't worry, your teacher will take this into account in the grading. Numeracy, longer written responses and working scientifically skills will be assessed. Physics equation sheets will be provided in 2022 but you need to select and apply appropriate formulae.

ERA Study

Trilogy (Higher Tier)

Revision Topics

Biology Paper 1:

- Cell Biology:
- Prokaryotic and eukaryotic cells
- Magnification
- Osmosis (investigation)
- Organisation:
- The digestive system and enzymes
- Effect of vigorous exercise on the body
- Stomata and water loss (investigation)
- Infection and Response
- Healthy life style
- Drug trials, placebo (investigation)
- Pathogens, disease, immunity and vaccination
- Bioenergetics:
- Aerobic and anaerobic respiration
- Photosynthesis & limiting factors

Chemistry Paper 1:

- Atomic Structure and the Periodic Table:
- Formulae
- Atomic Structure and the development of the atomic model
- The periodic table
- Bonding, Structure and the properties of matter:
- Ionic and covalent bonding
- Diamond
- Chemical Changes:
- Reactivity Series
- Acids, Bases and Salts
- Quantitative Chemistry
- Moles & calculating mass of substances in equations
- Energy Changes:
- Exothermic and endothermic reactions (investigation)
- Electrolysis

Physics Paper 1:

- Energy:
- Renewable and non-renewable energy
- Energy transfer, efficiency and power output
- Thermal conductivity
- Extension & Spring constant *(example of topic not yet studied by some groups – don't worry!)*
- Electricity:
- Resistance and length of wire (investigation)
- Charge & Power
- Three-pin plug, earth wire and mains electricity
- Particle Model of Matter:
- Particle theory and changes of state
- Specific heat capacity
- Specific latent heat
- Atomic Structure:
- Isotopes, Radioactive decay (alpha, beta, gamma) and half-life
- Contamination, irradiation and safety

Biology Paper 2:

- Homeostasis and Response:
- Homeostasis
- Endocrine system
- Regulation of blood glucose concentration & diabetes
- Hormonal control of the menstrual cycle
- Reflex arc
- Reaction time (investigation)
- Inheritance:
- The structure of DNA
- Genome
- Inherited disorders, genetic cross and embryo screening
- Asexual and sexual reproduction
- Meiosis
- Ecology:
- Predator prey relationship
- Human Activities – Peat, Deforestation
- Intensive farming

Chemistry Paper 2:

- Lab tests for carbon dioxide, hydrogen
- The Rate and Extent of Chemical Reactions
- Factors affecting the rate of reaction
- Effect of temperature on the rate of a reaction (investigation)
- Organic Chemistry
- Hydrocarbons, Crude oil and alkanes
- Combustion of alkanes
- Alkenes, including test for an alkene

Physics Paper 2:

- Forces:
- Scalar and vector quantities
- Acceleration
- Distance / time graphs
- Work done
- Trolley acceleration (investigation)
- Waves:
- Electromagnetic spectrum
- Wave properties
- Wave equation

Trilogy (Foundation Tier)

Revision Topics

Biology Paper 1:

- Cell Biology:
- Magnification
- Osmosis (investigation)
- Organisation:
- The digestive system and enzymes
- Respiratory system
- Effect of exercise on breathing (investigation)
- Aerobic and anaerobic respiration
- Stomata and water loss (investigation)
- Infection and Response
- Healthy life style
- Drug trials, placebo (investigation)
- Pathogens, disease and immunity

Chemistry Paper 1:

- Atomic Structure and the Periodic Table:
- Formulae
- Atomic Structure and the development of the atomic model
- The periodic table
- Metals
- The halogens
- Bonding, Structure and the properties of matter:
- Ionic and covalent bonding
- Diamond
- Chemical Changes:
- Reactivity Series
- Acids, Bases and Salts
- Thermal decomposition of metal carbonates (investigation)
- Energy Changes:
- Exothermic and endothermic reactions (investigation)
- Electrolysis

Physics Paper 1:

- Energy:
- Renewable energy
- Energy transfer, efficiency and power output
- Electricity:
- Resistance and length of wire (investigation)
- Charge & Power
- Three-pin plug, earth wire and mains electricity
- Particle Model of Matter:
- Particle theory and changes of state
- Specific heat capacity
- Specific latent heat
- Atomic Structure:
- Isotopes, Radioactive decay (alpha, beta, gamma) and half-life
- Contamination, irradiation and safety

Biology Paper 2:

- Homeostasis and Response:
- Homeostasis
- Endocrine system
- Regulation of blood glucose concentration & diabetes
- Reproductive hormones and contraception
- Reflex arc
- Reaction time (investigation)
- Inheritance:
- Inheritance, genetic cross
- Ecology:
- Food chains
- Ecological Cycles / microorganisms eg. Carbon and nitrogen cycles
- Biodiversity (Ecological investigation)

Chemistry Paper 2:

- Lab tests for carbon dioxide, hydrogen
- The Rate and Extent of Chemical Reactions
- Factors affecting the rate of reaction
- Effect of temperature on the rate of a reaction (investigation)
- Organic Chemistry
- Hydrocarbons, Crude oil and alkanes
- Combustion of alkanes
- Alkenes, including test for an alkene

Physics Paper 2:

- Forces:
- Scalar and vector quantities
- Acceleration
- Distance / time graphs
- Work done
- Trolley acceleration (investigation)
- Waves:
- Electromagnetic spectrum
- Wave properties
- Wave equation

Biology (Higher Tier)

Revision Topics

- **Paper 1 (1 hour 45 mins)**
- **Cell Biology**
- Prokaryotic and eukaryotic cells
- Mitosis and the cell cycle
- Transport eg. diffusion, osmosis & active transport
- **Organisation**
- Enzymes
- Adaptations of plants
- **Infection and Response**
- Mineral deficiencies in plants
- Drugs / alcohol & clinical drug trials
- Monoclonal antibodies

Bioenergetics

- Testing a leaf for glucose and starch
- Photosynthesis

- **Paper 2 (1 hour 45 mins)**
- **Homeostasis and Response**
- Nervous system
- Thermoregulation
- Control of blood glucose & diabetes
- Structure of the brain & fMRI scans
- Hormones and the menstrual cycle
- Plant hormones (investigation)

- **Inheritance (Variation & Evolution not tested)**
- Structure of DNA
- Mitosis and meiosis
- Genetic inheritance / punnett square
- **Ecology (Don't panic not studied since KS3)**
- Food chains & pyramids of biomass
- Microorganisms and decay (investigation)
- Human population growth (data analysis)
- Fishing quotas

Biology (Foundation Tier)

Revision Topics

Paper 1 (1 hour 45 mins)

- **Cell Biology**
- Cell structure & microscopy
- Mitosis and the cell cycle
- Stem cells
- Transport eg. diffusion, osmosis and active transport
- **Organisation**
- Testing for glucose
- Breathing and heart rate (data analysis) & response to exercise
- Blood components and the blood vessels
- Adaptations of plants
- Minerals needed by plants
- **Infection and Response**
- Microorganisms, infection, immunity and antibiotics
- Vaccinations
- Drug testing
- **Bioenergetics**
- Photosynthesis (investigation)

Paper 2 (1 hour 45 mins)

- **Homeostasis and Response**
- Homeostasis – water loss
- Thermoregulation
- The structure of the brain and nervous system
- The eye
- Hormones and the menstrual cycle
- Regulation of blood sugar and diabetes
- Kidney failure – dialysis or transplant
- Plant growth (investigation), hormones and tropisms
- **Inheritance (Variation & Evolution not tested)**
- Meiosis
- Genetic inheritance / punnett square
- The structure and functions of DNA
- **Ecology (Light assessment only – don't panic still to be studied)**
- Food chains and biomass
- Microorganisms & decay (investigation / data analysis)
- Human population growth

Chemistry (Higher Tier)

Revision Topics

Paper 1

- Structure and Bonding - properties and bonding of small and giant covalent, ionic and metallic
- Reactivity – displacement reactions, identification of order of reactivity
- Quantitative chemistry – conservation of mass, atom economy,
- Electrolysis – observations and products
- Scientific theories - development of the atomic model, development of the periodic table,
- Displacement reactions – limiting reactants, oxidation and reduction
- Energy in reactions – reaction profiles, fuel cells and rechargeable cells, gas volume calculations
- Groups in the periodic table – trend in melting and boiling points, reactions of metals and non metals, molar calculations
- Acid, base reactions- methodology of temp change in a reaction, concentration calculations, titration methodology

Paper 2

- Organic compounds – hydrocarbons, combustion reactions, gas volume calculations, comparison of alkane and alkene reactivity
- Chromatography - Rf values, phases, purity and mixtures
- Polymer chemistry – fractional distillation, cracking, polymer diagrams,
- Pollution - effects of combustion reactions,
- Reactions of acids – rates, conservation of mass, esterification of carboxylic acids
- Rates – mean rates, description of data, SA:Volume calc,
- Natural chemistry – testing for gases, amino acid polymerisation, early atmosphere, natural polymers,
- Reversible reactions – observations and equilibrium (pressure, temp),
- Rates – methodology of colour change reaction

Chemistry (Foundation Tier)

Revision Topics

Paper 1

- Elements in the periodic table – changes of state, reaction of metals and halogens
- Atomic model – sizes, subatomic particles and history of the atomic model
- Chemical reactions – energy profiles, fuel and chemical cells
- Electrolysis – observations and products
- Metal extraction – properties and alloys
- Acid reactions – bonding in covalent molecules, formulae, representations of molecules, energy changes in a reaction
- Salts and acid reactions – naming salts, pH changes, neutralisation and equipment choices
- Structure and bonding – properties and bonding of small and giant covalent, ionic and metallic
- Reactivity – displacement reactions, identification of order of reactivity
- Quantitative chemistry – conservation of mass, atom economy,

Paper 2

- Ammonia and Fertiliser – data analysis and energy profiles
- Pollution – effects of combustion reactions,
- Rates – calculation of rates, effect of surface area and describing rates
- Chromatography – Rf values, phases, purity and mixtures
- Alloys – uses and composition
- Polymers – functional groups, drawing structures, natural polymers
- Organic chem – alcohol production, esterification, cracking, properties of HCs, combustion, comparison of structures and properties of alkanes and alkenes

Physics (Foundation Tier)

Revision Topics

Paper 1 (1 hour 45 mins)

- National grid
- Renewable energy sources
- $E_p=mgh$
- $E_k=1/2mv^2$
- Mains electricity
- Alternating and direct current
- Power equations
- E=QV
- Series and parallel circuits
- Background radiation
- Alpha, beta and gamma decays
- Half-life
- Gas pressure
- Specific heat capacity
- Circuit symbols
- Latent heat
- IV characteristics
- V=IR
- Q=IT
- Efficiency
- Density=mass/volume
- Nuclear fission

Paper 2 (1 hour 45 mins)

- W=mg
- Contact and non-contact forces
- Velocity-time graphs
- $a = \frac{v-u}{t} = \frac{\Delta v}{t}$
- $E_k=1/2\ mv^2$
- Wave definitions and equations
- S=vt
- EM spectrum
- Reflection and refraction
- Seeing colour and colour filters
- Vectors
- Newton's laws of motion
- Distance-time graphs
- W=Fs
- F=ma
- Hooke's law experiment
- F=ke

Physics (Higher Tier)

Revision Topics

Paper 1 (1 hour 45 mins)

- IV characteristics
- V=IR
- Q=IT
- Efficiency
- Density=mass/volume
- Power equations
- Renewable energy
- Thermistors and LDRs
- Background radiation
- Nuclear fission
- E_p=mgh
- Energy transfers
- Specific heat capacity
- Series and parallel circuits
- Circuit symbols
- UK mains electricity
- Gas pressure

Paper 2 (1 hour 45 mins)

- F=ma
- Velocity-time graphs
- $a = \frac{v-u}{t} = \frac{\Delta v}{t}$
- E_k=1/2 mv^2
- Refraction
- Lenses
- Stopping distance
- $V^2=U^2 + 2as$
- $V=f\lambda$
- Wave defintions
- Distance-time graphs
- S=vt
- W=Fs
- P=W/t
- Hooke's law experiment
- F=ke
- EM spectrum

Revision Topics

French

- Role-play phrases and ways to ask questions
- Picture Tasks – PALMOW Phrases
- Past and Future Tense questions for Picture Tasks
- Past, Present and Future tenses to revise – www.languagesonline.org.uk
- Extending sentences – avant de / au lieu de / apres avoir...
- Chosen Topic for the Speaking tests – Environment, Big Events, Ethical Shopping or Voluntary work
- Follow-up questions for the Chosen Topic
- 2nd Topic – speaking questions for Family and Holidays
- Memrise – focus on Modules 1, 4, 5, 6 and 7

ERA Study

Revision Topics

IT

All the revision topics for ICT can be found on www.itslearning365.co.uk

How to use your Knowledge Organisers :

HOW TO USE YOUR KNOWLEDGE ORGANISERS

Here are some suggestions to help you get the most from your knowledge organisers …

- Read through the organiser and highlight key terms and words
- Use the organizer to teach someone about the topic
- Try converting the information into a mind map or a set of revision cards
- Create your own version from memory using images
- Display your organizers on the wall or the fridge door until the memory 'sticks'
- Read through them whilst you are sitting on the toilet – you've got nothing else to do for a couple of minutes
- Test yourself with the organisers regularly – especially on the spelling of key words
- Make a note of any key words or key facts you get wrong or misunderstand
- Make a glossary of key terms and definitions
- Record yourself reading through the knowledge organizer and play it back on your phone
- Get a partner to read sections out to you, but missing key words, phrases or definitions
- Make a set of quiz cards
- Make a blank knowledge organizer template. Try to complete it with out looking. Any parts you miss, use a different colour to add these

Other Strategies for using your knowledge organiser …

- Look, Cover, Say, Write, Check
- Create a mind map
- Post-it Notes
- Read it, Summarize it, Summarize it Again
- Revision Clock – Break a topic down into 12 smaller topics

Revision Topics

Computer Science

Computer systems

Systems architecture

Memory and storage

Computational thinking, algorithms and Programming

Algorithms

Boolean Logic

Programming Fundamentals

Programming Languages and Integrated Development Environments

Revision Topics

Music

Please contact Mrs Gardner for more information ngardner@montsaye.northants.sch.uk

Health and Social Care

Revision Topics

LO1 Understand how to support individuals to maintain their rights	I can explain rights- choice, confidentiality, protection from harm and abuse, equal and fair treatment, consultation Explain why it is important to maintain individual's rights?
	Explain how care workers can support individuals, to maintain their rights- by using effective communication, by providing up to date information, by challenging discriminatory behaviour, by providing information about complaints procedures, by providing advocacy
LO2 understand the importance of values of care and how they are applied	I can apply the values of care How the values are applied in HSC settings- promoting equality and diversity, maintaining confidentiality, promoting individual's rights and beliefs
	Explain how the early years values are applied in care and education settings- ensuring the welfare of the child is paramount, keeping children safe, working in partnership with parents/guardians and families, encouraging children's learning and development, valuing diversity, ensuring equality of opportunity, practising anti-discrimination, ensuring confidentiality, working with other professionals
	Explained the importance of applying the values of care
	Described the effects on people who use services if the values of care are not applied
LO3- Understand how legislation impacts on care settings	State who legislation protects
	I can give an overview of key aspects of legislation- Equality act, Children's act, Data protection act, Health and Safety at work act, Mental health act,
	I can describe the impact of legislation in HSC and early years services- on service users, care practitioners, service providers, a system of redress
LO4- Understand how personal	I can describe key personal hygiene measures and why they are important
hygiene, safety and security measures protect individuals	Explain safety procedures and safety measures- emergency procedures (fire), equipment, moving and handling techniques
	I can describe security measures in hospitals, nurseries, schools and care homes and why these are important
	I can explain how are individuals protected- methods for reducing the spread of infection, methods for reducing risks and dangers, procedures to prevent accidents and promote good practise.

ERA Study

EP

1hr 45 mins: Each of the 4 topics is worth 27 marks and has 5 questions:
a) 1 mark b) 2 marks c) 4 marks d) 5 marks e) 12 marks plus 3 SPaG

Revision Topics

Christian beliefs	Buddhists beliefs	Human relationships	Crime and Punishment
The nature of God: God as omnipotent, loving etc The oneness of God and the Trinity Beliefs about creation including the role of Word and Spirit Different Christian beliefs about the afterlife •the incarnation and Jesus as the Son of God <u>Jesus and salvation</u> •the crucifixion, resurrection and ascension •sin, including original sin •the means of salvation, including law, grace and Spirit •the role of Christ in salvation including the idea of atonement.	The concept of Dhamma The concept of dependent arising The Three Marks of Existence: anicca (impermanence) anatta (no fixed self) dukkha (unsatisfactoriness of life, suffering). The human personality, in the Theravada and Mahayana traditions: Theravada: the 5 Aggregates (skandhas) / Mahayana: sunyata, the possibility of attaining Buddhahood and Buddha-nature. Human destiny: different ideals in Theravada and Mahayana traditions: Arhat (a 'perfected person') and Bodhisattva ideals Buddhahood and the Pure Land.	**Key topics (know 2 views)** • Contraception. • Sexual relationships before marriage. • Homosexual relationships. Sex, marriage and divorce, including: sexuality, Sex before marriage, contraception, purpose of marriage, divorce, remarriage. Families and gender equality including: nature of families, purpose of families, same sex parents, polygamy, gender equality	**Key topics (know 2 views)** • Corporal punishment. • Death penalty. • Forgiveness. Good and evil intentions and actions Reasons for crime Aims of punishment Treatment of criminals Forgiveness The death penalty Ethical arguments about the death penalty including sanctity of life
AQA | Religious Studies A | Subject content | Component 1: The study of religions: beliefs, teachings and practices		AQA | Religious Studies A | Subject content | Component 2: Thematic studies	

ERA Study

Revision Topics

Food

Topics to revise:

- Food labelling
- Fruit and Vegetables
- Fats and Oils
- Bread
- Food Safety
- Dairy
- Food groups
- Water
- Diet Related Diseases

ERA Study

Revision Topics

Business GCSE – revision resources

https://www.tutor2u.net/business/topics

https://www.youtube.com/watch?v=xQc9RdRtCsU

https://www.bbc.co.uk/bitesize/examspecs/zvwb382

1. Business in the real world
2. Influences
3. Operations
4. Human Resources
5. Marketing
6. Finance

Checklist for all topics https://montsaye.sharepoint.com/:w:/r/sites/MA-Subjects/Bs/_layouts/15/Doc.aspx?sourcedoc=%7B777DD73B-0E5B-4CA7-A7C4-B735986EAA37%7D&file=AQA-GCSE-Business-studies-Topic-checklist-Grade-9-1.docx&action=default&mobileredirect=true

ERA Study

Revision Topics

Design Technology

Please contact Mrs Edney for more information nedney@montsaye.northants.sch.uk

ERA Study

Revision Topics

Art and Photography

- The photography mock exam will be a task based on your text and image project – you will be producing individual final pieces.
- The art mock exam will either be based on Conflict and Tension or Surrealism – please speak to Mrs Corr for more information mcorr@montsaye.northants.sch.uk

PE (GCSE)

Revision Topics

Paper 1

Skeletal System
Muscular System
Respiratory System
Cardiovascular System
Levers
Planes and Axis
Aerobic and anaerobic exercise.
Short and long term effects of exercise
Components of fitness and fitness testing
Principles of training FITT, and SPORT)
Types of training.
Warm ups (5 part) and cool downs (2 part)
Reducing the impact of risks and hazards in sporting areas.

Paper 2

Factors affecting participation, barriers and solutions.
Commercialisation of sport and the golden triangle
Sportsmanship, gamesmanship and forms of deviance (performance enhancing drugs and violence)
Characteristics of skillful movement (PFACE)
Difficulty and difficulty continuums
Sports psychology (selective attention, imagery, positive self-talk etc.
Guidance and feedback
Benefits of leading an active and healthy lifestyle
Diet and nutrition.

https://app.senecalearning.com/

Please email Mr Wing if you need another copy of the knowledge organisers.

ERA Study

Revision Topics

History

Paper 3 Russia and the Soviet Union 1917-41 (EdExcel)

Paper 2 Cold War and Superpower relations, 1941-91(EdExcel)

Please use the resources which have been sent to you such as Knowledge Organisers and Revision Guides.

Use BBC Bitesize to support any gaps of learning

YouTube videos are very useful for an accurate overview of topics/events/people

Also BOTH papers are on Seneca

Revision Topics

Geography

Topics for the trial examination:

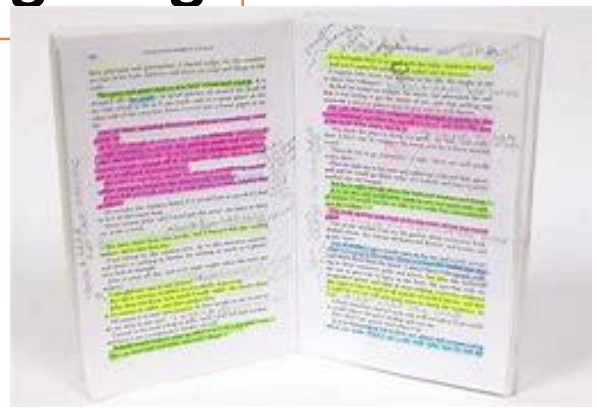
- Urban and rural processes and change in the UK (content learnt in Year 9)
- Weather and climate
- Rivers
- Ecosystems
- Water resources and management

ERA Study

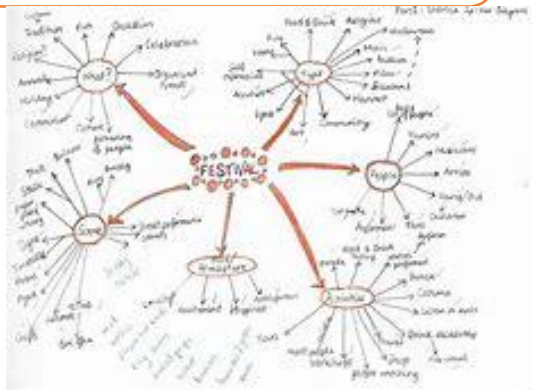
How to Revise

Revision Cards

Highlighting

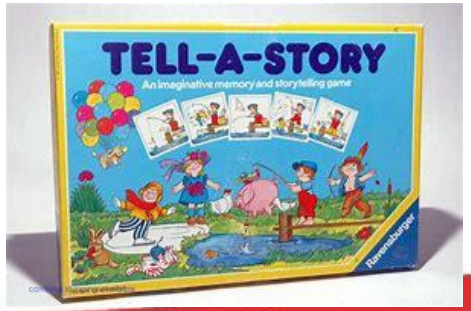


Spider Maps

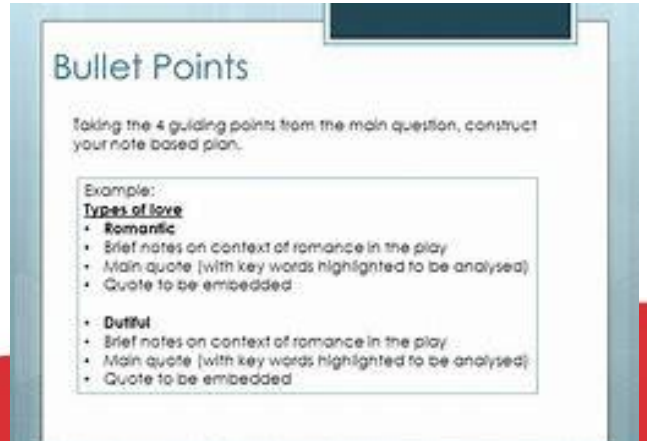


Quizzing

Creative Memory



Bullet Points



Flashcards

NextERA
Excellence Resilience Aspiration