

Preparing for Trial Assessments

Week commencing 21st February 2022

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.





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



Revision Topics

- English
- Maths
- <u>Science</u>
- History
- Geography
- <u>EP</u>
- Art/ Photography
- Dance
- Music
- ICT
- Computer Science



- Business GCSE
- Food
- Design
- Health and Social Care
- <u>PE</u>

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

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

https://www.montsaye.northants.sch.uk/students/homework/knowledgeorganisers/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/YfRzhXDKSZQxFVn3 OTIXBj/your-mental-health-toolkit











Dance (BTEC Performing Arts)

• This will be a written assessment – Your ideas log (800 words)

Resources

Follow the link below to access resources on our class team. You will find links to resources to support you.









English

The highlighted options are your next mock topics – revise these first!

- 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)









Maths

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

Foundation Checklist

Higher Checklist



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

www.corbettmaths.com/contents

GCSE Foundation Tier AQA Checklist 9

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

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

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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

Quadratic Graphs - Video 264

Simultaneous Equations - Video 295

Cubic Graphs - Video 344

Reciprocal Graphs - Video 346



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

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GCSE Higher Tier Checklist





Frequency Trees - Video 376

Two-way Tables - Video 319

Pie Charts - Videos 163, 164

Box Plots - Video 149

Estimated Mean - Video 55

Tree Diagrams - Video 252

Venn Diagrams - Video 380

Equation of a Circle - Video 12

Area under a curve - Video 389

Inverse Functions - Video 369

Quadratic Graphs - Video 264

Reciprocal Graphs - Video 346

Algebraic Proof - Video 365

Iteration - Video 373

Exponential Graphs - Video 345

Quadratic Formula - Video 267

Composite Functions - Video 370

Equation of a tangent - Video 372

Average rates of change - Video 390b

Trigonometric Graphs - Videos 338, 339

Completing the Square - Video 10, 371

Transformations of Graphs - Video 323

Instantaneous rates of change - Video 390a

Scatter Graphs - Videos 165, 166

Histograms - Video 157, 158, 159

Frequency Polygons - Videos 155, 156

Conditional Probability - Video 247

Cumulative Frequency - Videos 153, 154





Revision **Topics**

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







Science

Trilogy (Higher)

<u>Trilogy (Foundation)</u>

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.



Trilogy (Higher Tier)



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 M

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
- <u>Electricity:</u>
- 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)
- <u>Inheritance:</u>
- 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)



- 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
- <u>Ecology (Don't panic not studied since KS3)</u>
- Food chains & pyramids of biomass
- Microorganisms and decay (investigation)
- Human population growth (data analysis)
- Fishing quotas

Biology (Foundation Tier)



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 Human population growth
- 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)

Chemistry (Higher Tier)



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)



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 M

Paper 1 (1 hour 45 mins)

- National grid
- Renewable energy sources
- $E_p = mgh$
- $E_k = 1/2 \text{mv}^2$
- 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
- $a = \frac{v-u}{t} = \frac{\Delta v}{t}$
- $E_k = 1/2 \text{ mv}^2$
- 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 M

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







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 <u>www.languagesonline.org.uk</u>
- 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









DEADLINE FOR PROJECT: 4TH MARCH 2022

PROGRESS CYBER PROJECT: https://montsaye.sharepoint.com/sites/MA-Subjects/It/ layouts/15/Doc.aspx?sourcedoc={254c7cbe-4a09-4cf6-ad92-4965bf9fcc7c}&action=edit&wd=target%28Cambridge%20Nationals%20in%20Information%20Tech nologies.one%7C13882b64-0ffb-427c-ba28-bdefa8e9e953%2FPROGRESS%20CYBER%7C6101f058-66c2-489c-a95b-7366c5e02e00%2F%29

BARNEY'S BOOKS PROJECT: https://montsaye.sharepoint.com/sites/MA-Subjects/It/ layouts/15/Doc.aspx?sourcedoc={254c7cbe-4a09-4cf6-ad92-4965bf9fcc7c}&action=edit&wd=target%28Cambridge%20Technicals%20in%20Information%20Tech nology.one%7Cddcea0e5-ea84-4fd5-bd4a-

1f2e4c3b7f9a%2FCAM%20TECH%20UNIT%2021%20%20WEB%20DESIGN%20AND%20PROTOTYPIN G%7Ca72a99e4-8f42-4e29-8330-c9e5ac003d1b%2F%29



Computer Science

Topics for paper 1

Data representation

Units

Binary numbers

Hexadecimal numbers

Characters

Storing images

Storing sound

Compression

Networks

LAN's and WAN's

Networks hardware

Client-server and peer-to-peer networks

Network topologies

Network protocols





Topics for paper 2 (this is a full paper)

- 2.1 Algorithms
- 2.2 Programming fundamentals
- 2.3 Producing robust programs
- 2.4 Boolean logic
- 2.5 Programming languages and Integrated Development Environments



Music

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



Health and Social Care

Revision Topics



Can explain rights- choice, confidentiality, protection from harm and abuse, equal and fair treatment, consultation to support individuals to maintain their rights
individuals to maintain their 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 How the values of care How the values are applied in HSC settings- promoting equality and diversity, maintaining confidentiality, promotin 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 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, in the providers of the child is provided in the provider of the child is paramount.
maintain their 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 By 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 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, in the providers of the control of of
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system of redress
LO4- Understand
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.



EP beliefs and practices

1hr 45 mins: Each of the 4 sections 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







Christian beliefs

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

Jesus and salvation

- •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.



Christian Practices

The nature of God

God as omnipotent, loving and just, problem of evil and suffering, oneness of God, the Trinity, Creation, The afterlife: resurrection and life after death; judgement, heaven/hell.

Jesus Christ and salvation

Incarnation and Jesus = Son of God, crucifixion, resurrection, ascension, sin, inc original sin, Salvation, inc law, grace and Spirit, atonement.

Worship, festivals & community

liturgical, non-liturgical and informal, use of the Bible, private worship, prayer, sacraments: baptism, Holy Communion/ Eucharist, pilgrimage, Christmas and Easter.

Role of the church in the local/worldwide community: reconciliation and charity.

Link to full spec

AQA | Religious Studies A | Subject content | Component 1: The study of religions: beliefs, teaching and practices

Buddhists beliefs

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 Theravada and Mahayana traditions:

Theravada: the 5
Aggregates (skandhas) /
Mahayana: sunyata,
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.

Buddhist Practices

Worship and festivals

Buddhist places of worship,
puja, in the home and in the
temple, Meditation: Samatha
/ Vipassana / the visualisation of
Buddhas and Bodhisattvas,
Ceremonies and rituals associated
with death and mourning in
Theravada communities and in
Japan and Tibet.
Festivals and retreats, Wesak &
Parinirvana Day.

Buddhist ethics

- kamma (karma) and rebirth
- compassion (karuna)
- loving kindness (metta).
- The five moral precepts:
- The six perfections

EP themes

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





Human relationships

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



Religion and Life

Key topics (know 2 views)

- Abortion.
- Euthanasia.
- Animal experimentation.

The origins and value of the universe eg: Big Bang theory, and religious views. The value of the world, stewardship, dominion, responsibility, awe and wonder. The use and abuse of the environment. The use and abuse of animals.

The origins and value of human life including: religious teachings about the origins of human life, scientific, and religious views.

The sanctity of life and the quality of life. Abortion, including situations when the mother's life is at risk. Ethical arguments related to abortion, including those based on the sanctity of life and quality of life. Same for Euthanasia.

Beliefs about death and an afterlife, and impact on beliefs about value of human life.

Key topics (know 2 views)

Crime and Punishment

- 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

Link to full spec

AQA | Religious Studies A | Subject
content | Component 2: Thematic
studies

Key topics (know 2 views)

- Status of women in religion.
- The uses of wealth.

Human Rights

Freedom of rel expression.

Prejudice and discrimination in religion and belief, including to women and homosexuals.

Issues of equality, freedom of religion and belief

Human rights. Social justice.

Racial prejudice & discrimination. Ethical arguments related to racial discrimination (including positive discrimination),

Wealth and poverty including: the right attitude to wealth & uses of wealth. The responsibilities of wealth, Exploitation of the poor including fair pay & excessive interest on loans, people-trafficking. The responsibilities of those living in poverty to help themselves

Charity, inc giving money to poor.

Food

Topics to revise:

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









Business GCSE – revision resources







Topics on the Exam:

- 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=%7B777DD 73B-0E5B-4CA7-A7C4-B735986EAA37%7D&file=AQA-GCSE-Business-studies-Topic-checklist-Grade-9-1.docx&action=default&mobileredirect=true

Helpful Resources for information:

- https://www.tutor2u.net/bus iness/topics
- https://www.youtube.com/w atch?v=xQc9RdRtCsU
- https://www.bbc.co.uk/bitesi ze/examspecs/zvwb382





Revision Topics



DEADLINE FOR S5S Ltd PROJECT: 28th March 2022

Business Planning

Sources of Finance

Market Analysis and Market Research

People and Operations

Cashflow Forecast

Profit and Loss

Balance Sheet

Cash Flow Management

Financial Analysis

Break-Even Analysis









Design Technology

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









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)







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

{[positive and negative effects)

Sportsmanship, gamesmanship and forms of

deviance (performance enhancing drugs and

violence)

Characteristics of skillful movement (PFACE)

Difficulty and difficulty continuums

SMART targets

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.







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



Geography



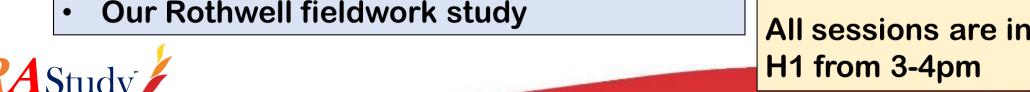
Eduqas GCSE Geography B February Mock Exam

Topics to revise for Paper 1:

- **Development and globalisation**
- Rivers
- Water supply and desertification
- **Ecosystems**

Topics to revise for Paper 3 (Fieldwork):

- Qualitative fieldwork methods
- **Surveys and questionnaires**
- Our Rothwell fieldwork study



There is a folder in Teams where your teachers will be uploading revision resources.

Intervention:

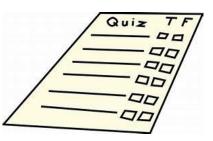
- 24th Jan (Water supply)
- 7th February (Development and globalisation)

All sessions are in

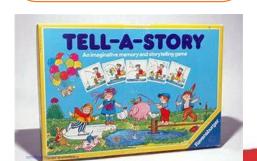
Revision Cards



Quizzing



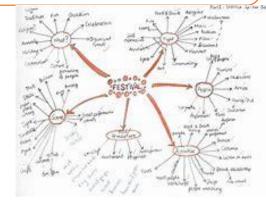
Creative Memory



Highlighting



Spider Maps



How to Revise

Bullet Points

Bullet Points

Taking the 4 guiding points from the main question, construct your note based plan.

Commeles

Types of love

- Romantie
- · Brief notes on context of romance in the play
- · Main quote (with key words highlighted to be analysed)
- Quote to be embedded
- DutMut
- Brief notes on context of romance in the pic
- Main quote (with key words highlighted to be analysed)

Flashcards



