Year 11 - March 2025 - Mock Exam Revision topic list.

This guide lists all the topics you need to revise for each of your mock exams .

Use this resource as a checklist.

Combined Science and Triple	GCSE Spanish		GCSE Computer Science
topics		GCSE MUSIC	
	 The basics: Numbers, Times & dates, Question words, 		1. Systems Architecture
Biology	Opinion phrases, Weather	Listening and appraising.	
 Homeostasis and response 			The purpose of thVon Neumann arc
 Inheritance 	• Family and friends: Physical descriptions, Personalities	A written paper, with audio recording.	 Common CPU con
 Variation and Evolution 	and Relationships		Function of the CF
		Aural recognition and context music from within	Factors affecting (
 Ecology 	• Free time activities: Music, Cinema, TV, Food, Hobbies	the Areas of Study 2, 3, 4 & 5.	cores)
Chemistry	and Sport		 Embedded system
-		Keywords	
Rate of reaction	• Technology in everyday life: Technology, Social media		2. Memory & Storage
 Organic Chemistry 	(advantages / disadvantages)	Melody (tune) Call and response is used to create a	• RAM vs. ROM (dif
Chemical Analysis	(auvalitages / uisauvalitages)		 Virtual memory
Chemistry of the	• Custome and factively. Comparing different factively	musical convers ation.	 Flash memory
·	Customs and festivals: Comparing different festivals,	Pitch - High, Mid, Low/bass	 The need for seco
Atmosphere	Discussing past experiences	FITCH - High, Mid, Low/bass	Types of secondar
 Earth's Resources. 			 Advantages and d
	• Where you live: Places in the city, Home, Activities you do	Texture- Thick (many instruments) – Thin (a few or	 Data capacity and
	at home, Chores you do at home, Shopping (clothes /	solo instruments).	
	food)		3. Computer Networks, Cor
Physics		Polyphonic - At least two parts with separate melody	 Types of networks
 Forces and Motion 	Lifestyle: Healthy living / Unhealthy living, Illnesses /	lines.	 Factors affecting r
Waves	injuries Remedies		 The role of hardway
 Magnetism and 		Homophonic - lines of music move in a similar	media)
Electromagnetism	• Social and global issues: Environmental problems, Ways	shape.	Client-server vs. p
• Space (TRIPLE ONLY)	to protect the environment, Problems in society		The Internet and c
		Monophonic - Mono/one line no harmony	Network protocols
	• Travel and tourism: Where to go, Accommodation (types		 The concept of lay
	of accommodation, booking and dealing with problems),	Heterophonic - One tune, Theme and variation	4 Notwork Convrity
	Transport, What to do on holiday		4. Network Security
		Harmony - Major/minor chords (two or more notes	• Types of cyber thr
	a Commant and fortune study, and ampleoments Calesal	played at the same time.	attacks, Denial of
	Current and future study and employment: School		 Identifying and press
	subjects, School routine, School rules, School life /	Dynamics - Loud (forte), Quiet (piano), moderately	forensics, Anti-ma
	activities, Jobs (work experience), Future plans, Gap year	loud, moderately quiet or soft. Terraced dynamics	
	plans (un año sabático)		5. Systems Software
		Tempo - Speed, how fast or slow is the music	• The nurnese and f
	- Grammar: Past / present / future tense / conditional tense	performed.	 The purpose and f User inte
	Imperfect tense (used to),Subjunctive tense (if i could),		managen
	Idioms.	Structure - Intro, verse, bridge, chorus. Describe the	 The purpose and f
		sections. ABA, ABCABC, AABBAA	o Encryptic
			(full vs. ir
		Instrumentation - Name specific instruments for	
		the genre/style of music. (Steel pans- calypso.	6. Ethical, Legal, Cultural &
		Bouzouki-Greek, Sitar/Tabla-Raga. African Music-	a material de la de
		Talking drum to send messages).	Ethical, legal, cultu Privacy issues
		Technologie in the second	 Privacy issues Legislation related
		Technology - Loops, echo, reverb, sequence,	• Legislation related • Data Prot

nce

the CPU Irchitecture (MAR, MDR, Program Counter, Accumulator) Omponents (ALU, CU, Cache, Registers) CPU and the Fetch-Decode-Execute cycle g CPU performance (Clock speed, Cache size, Number of

ems (characteristics and examples)

lifferences and purpose)

condary storage lary storage (optical, magnetic, solid-state) disadvantages of storage types nd storage calculations (bit, nibble, byte, KB, MB, GB, TB, PB)

Connections & Protocols

ks (LAN, WAN) g network performance ware in networking (Router, Switch, NIC, Transmission

. peer-to-peer networks d cloud computing ols (TCP/IP, HTTP, HTTPS, FTP, POP, IMAP, SMTP) ayers in networking (Application, Transport, Internet, Link)

hreats (Malware, Phishing, Social engineering, Brute-force of Service, Data interception, SQL injection) preventing vulnerabilities (Penetration testing, Network nalware, Firewalls, User access levels, Passwords, Encryption)

d functions of operating systems terface, memory management, multitasking, peripheral ement, drivers, security d functionality of utility software tion software, defragmentation, data compression, backup incremental)

& Environmental Impacts of Digital Technology

Itural, environmental issues related to computing

ed to computing: rotection Act iter Misuse Act

		î
	layering tracks, Quantize, automation for volume fade.	 Copyrigh Freedom
	The concerto - Baroque - (Small group/soloist-	Open source vs. p
	Concertino (call), large group-Ripieno (Response).	
	Classical-Soloist-large orchestra. Baroque - Basso continuo.	1. Algorithms
	Popular music - 1960's, 1970's 1980's 1990's to	Computational thDesigning algorith
	current day. Bass guitar, Drums, Vocals, piano, electric	O Flowchar
	guitar, melody and accompaniment, accappella vocals.	 Pseudoco Searching algorith
	Riff.	o Binary se o Linear se
	World music - Samba, Calypso, African music,	 Sorting algorithms
	Greek music, Israeli music, Palestinian Music, Raga,	O Bubble se
	Bhangra,	o Merge so
	Film Music - Leitmotif, orchestral instruments, mood,	O InsertionComparing efficie
	sequences.	
	*D	2. Programming Fundamer
	*Remember: Quickly underline keywords	• Variables, constar
	for each question.	 Operators (arithm
		 Sequence, selection UNTIL)
	a) Give <u>four features</u> of the <u>accompaniment</u>	 Basic string manip
	(backing) that you hear.	File handling (read
		SQL basics (SELEC
	b) <u>Describe</u> how the <u>solo</u> <u>instrument</u> and	The use of arrays/
	the orchestra work together (*idea - call	3. Producing Robust Progra
	and response)	
		 Defensive program O Input val
	c) Compare the <u>tempo</u> (speed) of <u>both</u> of	o Authenti
	the <u>extracts</u> .	Maintainability of
	d) How many beats are in a bar? (2, 3, 4)	o Commen o Indentati
		o Naming o
	(2/4, 3/4, 4/4, 6/8)	Testing:
	e) Compare questions - <u>Describe extract a)</u>	IterativeTypes of
	and how <u>extract b</u>) is <u>different</u> . Comment	
	on speed, instruments, texture, dynamics,	4. Boolean Logic
	articulation, structure, rhythm. Similar to	 Logic gates (AND,
	describing characters in GCSE English	 Truth tables
	describing characters in BCSC English	 Combining logic g
		5. Programming Languages
		High-level vs. low
		The need for trans
		 Features of an IDE environment, autor
		Pseudocode exercises MAS

ht Designs and Patents Act of Information Act proprietary software ninking (abstraction, decomposition, algorithmic thinking) hms using: irts code hms: earch earch ns: sort ort sort ency of algorithms (time and space complexity) entals nts, data types (integer, real, Boolean, character, string) netic, comparison, assignment, logical) ion (IF statements), and iteration (FOR, WHILE, REPEAT pulation (length, substring, concatenation) ading, writing, opening, closing) CT, FROM, WHERE) /lists (1D and 2D) rams imming techniques: lidation cication (e.g., username/password) f code: nts tion conventions e and final/terminal testing f test data (normal, boundary, erroneous) , OR, NOT) gates & Integrated Development Environments (IDEs) -level languages (advantages/disadvantages)

nslators (interpreters, compilers, assemblers) E (debugging tools, error diagnostics, run-time to-complete, syntax highlighting)

STER

GCSE sociology	BTEC HEALTH AND SOCIAL CARE	Business	History GCSE
	Factors that affect health and well-being	Paper 2 Theme 2: Building a business	Paper 3 Weimar and Nazi
<u>Families</u>	physical- eg inherited conditions	 Topic 2.1 Growing the business 	Paper 3. The page number
 Functions of families 	lifestyle - eg smoking	 Topic 2.2 Making marketing decisions 	raper 5. The page number
• Family forms	social - eg bullying	Topic 2.3 Making operational decisions	• Key Topic 1: The Weir
 Conjugal role relationships 	cultural - eg religion	 Topic 2.4 Making financial decisions 	• Key Topic 2: Hitler's ri
 Changing relationships within families 	economic - eg employment.	 Topic 2.5 Making human resource 	Key Topic 3: Nazi cont
Criticisms of families	environmental - eg housing needs.	decisions	• Key Topic 4: Life in Na
Divorce			
Education	The impact of on PIES of different types of	Please refer to the specification for further	
 Roles and functions of education 	life events:	breakdown:	
• The relationship between education and	relationship changes	https://qualifications.pearson.com/content/d	
capitalism	circumstances	am/pdf/GCSE/Business/2017/specification-	BTEC Tech Award - Perf
Educational achievement	physical events	and-sample-assessments/gcse-business-spec-	DILC ICCI Award - I CI
• Processes within schools		2017.pdf	Component 3 - Respond
Sociological research methods	interpreting health indicators		https://gualifications.pe
Research design	physiological indicators		awards/performing-arts
• Qualitative and quantitative methods	- eg heart rate		
• Different types of data	blood pressure/BMI		assessments/BTEC-Perfo
 Primary and secondary sources 	potential risks of abnormal readings	GCSE Citizenship	Identify the following
 Interpretation of data 	short-term and long-term risks		Identify the following
 Practical issues and ethical issues 		Life in Modern Britain	Stimulus
	lifestyle indicators		Creative intentio
Geography Paper 2	eg nutrition	• What are the principles and values	Target audience
	physical activity	that underpin British society?	 Practitioners and Different studes
Urban Issues and Challenges	smoking	 What do we mean by identity? 	Different styles a
	alcohol		Theatre stages
 The Urban World with a Lagos as a case study 	substance misuse	• What is the role of the media and the	Structure and lay
• Urban Change in the UK with London as a case		free press?	 Acting skills
study	person centred approach to improving	 What is the UK's role in key 	
 Urban sustainability 	health and well-being	international organisations?	Drama techniques for de
	needs to reduce health risks	 How can citizens make their voice 	Still image The such targets
The Changing Economic World	wishes their choices	heard and make a difference in	Thought track
	circumstances - including age , ability		Direct address
 Development indicators and Global variations in 	,location, living conditions etc.	society?	Narration
		Politics and participation	Slow motion
economic development and quality of life.	The importance of a person -centred	Politics and participation	Unison/Canon
	approach and the benefits.	• Where does political newer reside in	Symbolism
 The physical and human factors influencing 	makes people comfortable	Where does political power reside in	Mime
development	improves independence	the UK and how is it controlled?	Cross cutting
	establishes trust.	 What are the powers of local and 	 Flash Forward/Fl
 Strategies to reduce the Development Gap 	improves motivation	devolved government and how can	
(international Aid, fairtrade, tourism,	feel happier.	citizens participate?	Identify different devisir
microfinance etc)		• Where does political power reside:	process:
• The Case Study of Nigeria	recommendations and actions to improve	with the citizen, parliament or	https://www.bbc.co.uk/
• The Case Study of the UK	health and well-being.		
	how to quit smoking	government?	Practitioners and techni
The Challenge of resource management	reduce alcohol	 How do others govern themselves? 	https://www.bbc.co.uk/
	eat well	 How can citizens try to bring about 	
 Global resource management 		political change?	
_	improve blood pressure		
 Food, water and energy in the UK 	maintain a healthy weight		
 Food Management (IBIS and sustainable 	support available		
food)production)	charities		
	informal support - friends , colleagues		
	•		-

azi Germany (1 hour 30 mins). Revise everything from bers below are in your green revision book.

/eimar Republic 1918-29 p113-8 's rise to power, 1919-33 p119-123 ontrol and dictatorship, 1933-39 p124-127 Nazi Germany, 1933-39 p129-133

erforming Arts

onding to a brief: Sample material .pearson.com/content/dam/pdf/btec-tecorts/2017/specification-and-sampleerforming-Arts-SAM.pdf

tion ce and techniques es and genre s layout of a performance

r devising - Definitions and application of:

/Flashback

ising techniques and how to undergo the devising

uk/bitesize/topics/zjw3vk7

nniques uk/bitesize/topics/zm72pv4

English Language Paper 2: Writers' Perspectives

1 hour 45 minutes (80 marks)

Section A: Reading (spend 1 hour on this section) One 20th/21st Century non-fiction text and one 19th Century non-fiction text. 40 marks.

Section B: Writing (spend 45 minutes on this section)

Overview of each question:

Question	Marks	What do you need to do?	Things to remember
1	4	Shade four circles of the "true statements"	Select your evidence from the line numbers given.
2	8	Summarise and infer either the similarities or the differences between something mentioned in the two extracts.	 The question will specify if you need to focus on similarities or differences. This is NOT the same as Q4. Focus on the thing mentioned in the question, <u>not</u> the writer's perspective on that thing.
3	12	Language analysis	 Zoom in on words and/or techniques and explain their effect in as much detail as you can. Use the word "Furthermore" in your analysis
4	16	Comparison of ideas and perspectives	 Compare the writers' ideas and perspectives on the thing they are talking about. Remember to zoom in on words/techniques again you can repeat things you've already said, but rephrase them for this question.
5	40	Write an article, letter, or a speech.	 Identify the text type, purpose, audience, and perspective of the task. Spend 5 minutes planning – this is CRITICAL. You should have an intro, at least THREE main "sections" (minimum) and a conclusion. If it's a letter, make sure you include the conventions of a letter. Ditto for an article. Include a range of "hot" and "cool" language for effect, making sure you "hook" the reader at the start of an article or speech. 16 marks for SPAG, sentence structure, ambitious vocab and variety of punctuation FOR EFFECT. Try to use the full range of punctuation (if appropriate for the task)_{ac}, -!?;:(). But think carefully about what's appropriate.

Mr Bruff revision video playlist (YouTube)	
Revision guide/practice workbook (Amazon)	

GCSE Sport

PAPER 2

Topic 4 - Health, Fitness and Wellbeing

- Physical, emotional and social health, fitness and wellbeing
- The consequences of a sedentary lifestyle
- Energy use, diet, nutrition and hydration

Topic 5 - Sport Psychology

- Classification of skills (basic/ complex, open/closed)
- The use of goal setting and SMART targets to improve and/or optimise performance
- Guidance and feedback on performance
- Mental preparation for performance

Topic 6

- Engagement patterns of different social groups in physical activity and sport
- Commercialisation of physical activity and sport
- Ethical and socio-cultural issues in physical activity in sport

GCSE French

- phrases, Weather
- Relationships
- Sport
- past experiences
- Remedies

- sabbatique)

- Grammar: Past / present / future tense / conditional tense, Imperfect tense (used to...), Subjunctive tense (if i could...), Idioms.

• The basics: Numbers, Times & dates, Question words, Opinion

• Family and friends: Physical descriptions, Personalities and

• Free time activities: Music, Cinema, TV, Food, Hobbies and

• Technology in everyday life: Technology, Social media (advantages / disadvantages)

• Customs and festivals: Comparing different festivals, Discussing

• Where you live: Places in the city, Home, Activities you do at home, Chores you do at home, Shopping (clothes / food)

• Lifestyle: Healthy living / Unhealthy living, Illnesses / injuries

• Social and global issues: Environmental problems, Ways to protect the environment, Problems in society

• Travel and tourism: Where to go, Accommodation (types of accommodation, booking and dealing with problems), Transport, What to do on holiday

• Current and future study and employment: School subjects, School routine, School rules, School life / activities, Jobs (work experience), Future plans, Gap year plans (une année

Maths GCSE <u>Higher</u> tie		
Unit 1 - Number	Unit 7 - Area and Volume	Unit 13 - More Trigonometry
Number Problems and Reasoning	Perimeter and Area	Upper and Lower Bounds in Trigonometry
Place Value and Estimating	Units and Accuracy	Graphs of Trigonometric Functions
HCF and LCM	Prisms	Tangent Function
Calculating with Indices	Circles	Calculating Area and Sine Rule
Zero, Negative and Fractional Indices	Sectors of Circles	Cosine Rule and 2D Trigonometric Problems
Powers of 10 and Standard Form	Cylinders and Spheres	Solving Problems in 3D
Surds	Pyramids and Cones	Transformation of Trigonometric Graphs
Unit 2 - Algebra	Unit 8 - Transformations and Constructions	Unit 14 - Further Statistics
Algebraic Indices	3D Solids	Sampling
Expanding and Factorising	Reflections and Rotations	Cumulative Frequency
Equations	Enlargement	Box Plots
Formulae	Bearings and Scale Drawings	Drawing Histograms
Linear Sequences	Constructions	Interpreting Histograms
Non-Linear Sequences	Loci	Comparing and Describing Populations
Unit 3 - Interpreting and Representing Data	Unit 9 - Equations and Inequalities	Unit 15 - Equations and Graphs
Statistical Diagrams	Solving Quadratic Equations	Solving Simultaneous Equations Graphically
Time Series	Completing the Square	Representing Inequalities Graphically
Boatter Graphs	Simultaneous Equations	Graphs of Quadratic Functions
_ine of Best Fit	Linear and Quadratic Simultaneous Equations	Solving Quadratic Equations Graphically
Averages and Range	Linear Inequalities	Graphs of Cubic Functions
Unit 4 - Fractions and Percentages	Unit 10 - Probability	Unit 16 - Circle Theorems
Fractions	Combined Events	Radii and Chords
Ratios	Mutually Exclusive Events	Tangents
Ratio and Proportion	Experimental Probability	Angles in Circles
Percentages	Independent Events & Tree Diagrams	Applying Circle Theorems
Fractions, Decimals and Percentages	Conditional Probability	Unit 17 - More Algebra
Unit 5 - Angles and Trigonometry	Venn Diagrams and Set Notation	Rearranging Formulae
Angle Properties - Triangles/Quadrilaterals	Unit 11 - Multiplicative Reasoning	Algebraic Fractions
nterior/Exterior Angles	Growth and Decay	Simplifying Algebraic Fractions
Pythagoras	Compound Measures	Surds
Trigonometry	Ratio and Proportion	Solving Algebraic Fraction Equations
Trigonometry	Unit 12 - Similarity and Congruence	Functions
Unit 6 - Graphs	Congruence	Proof
Linear Graphs	Geometric Proof and Congruence	Unit 18 - Vectors and Geometric Proof
Graphing Rates of Change	Similarity	Vectors and Vector Notation
	Similarity in 3D Solids	Vector Arithmetic
Real-Life Graphs	Similarity in SD Solids	
Line Segments		Parallel Vectors and Collinear Points
Quadratic Graphs		Solving Geometric Problems
Cubic & Reciprocal Graphs		Unit 19 - Proportion and Graphs
		Direct Proportion
		Inverse Proportion
		Exponential Functions
		Non-Linear Graphs
		Translating Graphs of Functions
		Reflecting and Stretching Graphs of Function

	Unit 14 - Multiplicative Reasoning
	Percentages
	Growth and Decay
	Compound Measures
	Distance, Speed and Time
	Direct and Inverse Proportion
	Unit 15 - Constructions, Loci and Bearings
	3D Solids
	Plans and Elevations
	Accurate Drawings
	Scale Drawings and Maps
	Constructions
	Loci and Regions
Coordinates	Bearings
Linear Graphs	Unit 16 - Quadratic Equations and Graphs
Gradient	Expanding Double Brackets
y=mx+c	Plotting Quadratic Graphs
Real-Life Graphs	Using Quadratic Graphs
Distance-Time Graphs	Factorising Quadratic Expressions
Unit 10 - Transformations	Solving Quadratic Expressions Algebraically
Translation	Unit 17 - Perimeter, Area and Volume 2
Reflection	Circumference of a Circle
Rotation	Area of a Circle
Enlargement	Semicircles and Sectors
Describing Enlargements	Composite 2D Shapes and Cylinders
Combining Transformations	Pyramids and Cones
Unit 11 - Ratio and Proportion	Spheres and Composite Solids
Writing Ratios	Unit 18 - Fractions, Indices and Standard For
	Multiplying and Dividing Fractions
Ratios and Measure	Laws of indices
Comparing Using Ratios	Writing Large Numbers in Standard Form
Proportion and Graphs	Writing Small Numbers in Standard Form
	Calculating with Standard Form
	Unit 19 - Congruence and Similarity
	Similarity and Enlargement
Trigonometry (Sine, Cos and Tan Exact	Using Similarity
Trigonometry (Sine, Cos and Tan Problems)	Congruence
	Vectors
	Unit 20 - More Algebra
	Graphs of Cubic and Reciprocal Functions
	Non-Linear Graphs
	Solving Simultaneous Equations Graphically
Venn Diagrams	Solving Simultaneous Equations Algebraically
1 crist and grants	contrary contained as Equations Higebraidally
Tree Diagrams	Rearranging Formulae
	Linear Graphs Gradient y=mx+c Real-Life Graphs Distance-Time Graphs Unit 10 - Transformations Translation Reflection Rotation Enlargement Describing Enlargements Combining Transformations Unit 11 - Ratio and Proportion Writing Ratios Using Ratios Ratios and Measure Comparing Using Ratios Proportion and Graphs Proportion Problems Unit 12 - Right-Angled Triangles Pythagoras Trigonometry (Sine, Cos and Tan Exact Trigonometry Unit 13 - Probability Two Events Experimental Probability