

**YEAR 12 TRIAL EXAMINATIONS
REVISION TOPIC LISTS
APRIL 2026**

Link to [Beths Grammar School Curriculum Maps](#)

SUBJECT	TOPIC LIST
BIOLOGY	<p>Biology - Topic 1 and 2 Topic 1 - The Heart, Biological Molecules and CVD, Topic 2 - Genes and Health (DNA, Proteins, Enzymes, Membranes, Cystic Fibrosis, Genetics)</p>
BUSINESS	<p>AQA A-Level Business – One-Page Topic Checklist (Up to 3.6.4)</p> <p>3.1 What is Business? Purpose of business • Business objectives • Internal & external environment • Stakeholders • Uncertainty & risk</p> <p>3.2 Managers, Leadership & Decision Making Manager roles • Leadership styles • Decision-making methods • Scientific vs intuitive decisions • Stakeholder impact</p> <p>3.3 Marketing Management Marketing objectives • Market research • Segmentation, targeting, positioning • Marketing mix (7Ps) • Digital marketing</p> <p>3.4 Operational Management Operational objectives • Productivity & efficiency • Capacity utilisation • Quality management • Supply chains & inventory • Technology</p> <p>3.5 Financial Management Financial objectives • Revenue, costs & profit • Cash flow & working capital • Investment appraisal • Sources of finance</p> <p>3.6 Human Resource Management 3.6.1 HR Objectives: Recruitment • Retention • Training & development • Engagement 3.6.2 HR Performance: Productivity • Labour turnover • Absenteeism • HR data 3.6.3 Organisational Design & HR Flow: Structures • Centralisation • Workforce planning • Recruitment • Training • Retention 3.6.4 Motivation & Engagement: Importance • Motivation theories (Taylor, Maslow, Herzberg) • Financial methods • Non-financial methods • Influencing factors</p>
CHEMISTRY	<p>Paper 1 Physical and Inorganic Unit 1, 2 and 3 (1, 2.1, 2.2, 3.1,3.2)</p> <p>Paper 2 Organic C4 .1 all of it and C4.2 up to page 209 only</p>

COMPUTING	FDE Cycle, Interrupts, Input/Output Devices, Operating Systems & BIOS, Scheduling, Device Drivers, LMC, Binary, High Level Language/Low Level Language, Embedded Systems, SQL, Search & Sort Techniques, Data Structures - Stacks & Queues & Arrays, Types of Variables, Pathfinding Algorithms, IDE's, Iteration, Subroutines.
DT	<p>Design and Technology [Product Design]</p> <p>1.2 Metals: a) ferrous metals – mild steel, carbon steels, cast iron b) non-ferrous metals – aluminium, copper, zinc, tin c) Alloys (ferrous and non-ferrous) – stainless steel, duralumin, brass.</p> <p>1.1 Woods: a) hardwoods – oak, mahogany, beech, jelutong, balsa b) Softwoods – pine, cedar, larch, redwood.</p> <p>3.1 Processes, applications, characteristics, advantages and disadvantages of the following, in order to discriminate between them and select appropriately including the selection of specific and relevant tools to be used for domestic, commercial and industrial products and systems, and use safely when experimenting, improving and refining in order to realise a design: a) heat treatments – hardening and tempering, casehardening, annealing, normalising (including use of specialist tools) b) alloying (including use of specialist tools) d) casting – sand (to include investment), die, resin, plaster of Paris (including use of specialist tools) e) machining – milling/routing, drilling, turning, stamping, pressing (including use of specialist tools)</p> <p>3.2 Application of specialist measuring tools and equipment to determine and apply the accuracy and precision required for products to perform as intended. a) marking, cutting and mortise gauges b) odd leg, internal and external callipers c) squares (set, try, engineers and mitre) d) micrometre and Vernier callipers e) densitometer f) dividers g) jigs and fixtures. h) Go and no-go gauges.</p> <p>3.3 Use of media to convey design decisions, to record to recognised standards, explain and communicate information and ideas using the following methods and techniques: a) pictorial drawing methods for representing 3D forms – isometric, 2-point perspective b) working drawings for communicating 2D technical information – 3rd angle orthographic projection, triangulation c) nets (developments) for communicating information about 3D forms in a 2D format d) Translation between working drawings, pictorial drawings and nets (developments) e) report writing.</p> <p>3.4 Uses, characteristics, advantages and disadvantages of the following permanent and semi-permanent joining techniques in order to discriminate between them, select appropriately and use safely: a) adhesives – contact adhesive, acrylic cement, epoxy resin, polyvinyl acetate (PVA), hot melt glue, cyanoacrylate (superglue), polystyrene cement (including use of specialist tools) b) mechanical – screws, nuts, bolts, washers, rivets, press (including use of specialist tools) c) heat – oxy-acetylene welding, MIG welding, brazing, hard soldering, soft soldering (including use of specialist tools) d) Jointing – traditional wood joints, knock-down fittings (including use of specialist tools). Design Movements [All six from "My Revision notes"]</p>
ECONOMICS	<p>Paper 1 – Microeconomics</p> <ul style="list-style-type: none"> • The economic problem and economic methodology • Price determination in a competitive market • The market mechanism, market failure and government intervention in markets <p>Paper 2 – Macroeconomics</p> <ul style="list-style-type: none"> • The measurement of macroeconomic performance • How the macroeconomy works : the circular flow of income, AD/AS analysis, and related concepts, Economic performance

ELECTRONICS	<p>Electronics component 1 - Principles of Electronics Core concepts. Component 1: Chapter 1 - Logic systems. Chapter 2 - Timing Circuits. Chapter 3 - Sequential Logic Systems. Chapter 4 - Operational amplifiers. Chapter 5 - Semi-conductor components. Chapter 6 - Microcontrollers. Chapter 7 - Main power supply systems. Component 2: Chapter 1 - Further sequential systems (if we get this far). Chapter 2 - Further Mains Power Supplies.</p>
ENGLISH LITERATURE	<p>Paper 1: Drama and Poetry (2hr 15) A Streetcar Named Desire and Post-2000 Specified Poetry Paper 2: Prose (1hr 15) Frankenstein and The Handmaid's Tale</p>
FRENCH	<p>Paper 1 - Listening, Reading and Translation Theme 1: Social issues and trends Subtopic 1: Aspects of Society: current trends Topic 1: The changing nature of family Topic 2: The 'cyber-society' Topic 3: The place of voluntary work / Theme 2: Political and artistic culture Subtopic 1: Artistic culture Topic 1: A culture proud of its heritage Topic 2: Contemporary music Topic 3: The 7th Art: Cinema</p>
FURTHER MATHS	<p>Paper 1 - Pure Yr 2 content Yr 2 Pure content (with expectation of knowledge of yr 1) Paper 2 - Applied content from yr 1 and 2</p>
GEOGRAPHY	<p>Physical and Human Geography Physical: Water & Carbon, Coastal Systems; Human: Changing Places, Contemporary Urban Environments</p>
GEOLOGY	<p>F1, F2 F4, practical and fieldwork skills.</p>
HISTORY	<p>Paper 1 - Britain 1625-88 Politics 1660-88, Religion 1625-88, Society - structure changes 1625-88, Economy - Imperial expansion 1625-88 Paper 2 - Russia 1894-1917 Chapters 1, 2 and 3</p>

MANDARIN	Listening Reading and Translation Theme 1: Family, Work and Education Theme 2: Chinese Culture
MATHEMATICS	2 papers – year 1 course in full. Pure and stats.
MUSIC	Unit 3: Appraising Music We will cover all of AoS E and B. We will do a dictation as well as be questioned on the first movement of the Haydn. You will do an essay, but it will be reduced.
PE	Paper 1 - Physiological factors affecting performance Skeletal and muscular systems, Cardiovascular and respiratory systems, Diet and nutrition, Training methods, Biomechanics Paper 2 - Psychological and socio-cultural themes in physical education Classification of skill, Types and methods of practice, Transfer of skills, Learning theories, Stages of learning, Individual differences, Group and team dynamics, Emergence and evolution of sport, sport in the 21st century, Global sporting events
PHYSICS	Module 1: Development of practical skills in physics, Module 2: Foundations of Physics, Module 3 Forces and Motion, Module 4: Electrons, waves and photons
POLITICS	Paper 1 - UK Government with Non - Core Ideologies Constitution, Parliament, Prime Ministers, Feminism Paper 2 - UK Politics Democracy and Participation, Political Parties, Elections and referendums, Voting behaviour and media
PSYCHOLOGY	Paper 1 - Introductory topics in Psychology Social Influence, Memory, Attachment Paper 2 - Psychology in Context Approaches in Psychology, Clinical Psychology, Research Methods
RELIGIOUS STUDIES	Ethics and Philosophy Philosophy - Inductive and Deductive arguments for the existence of God, Problem of Evil, Religious Experience. Ethics, ethical thought, deontological ethics, telological ethics,

SOCIOLOGY	Paper 1 - Education with Methods in Context Education Topics 1-6 / Methods in Context Topics 3-6 / Theories - Functionalism + Marxism Paper 2 - Families and Households Families and Households Topics 1-7
SPANISH	Paper 1 - Listening, Reading and Translation Theme 1: Social issues and trends Subtopic 1: Aspects of Society: current trends Topic 1: Modern and traditional values Topic 2: Cyberspace Topic 3: Equal rights / Theme 2: Political and artistic culture Subtopic 1: Artistic culture Topic 1: Modern day idols Topic 2: Spanish regional identity Topic 3: Cultural heritage