

St. Mary's
Grammar School, Magherafelt.



Year 13 Revision Guide

Winter 2026

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Deo
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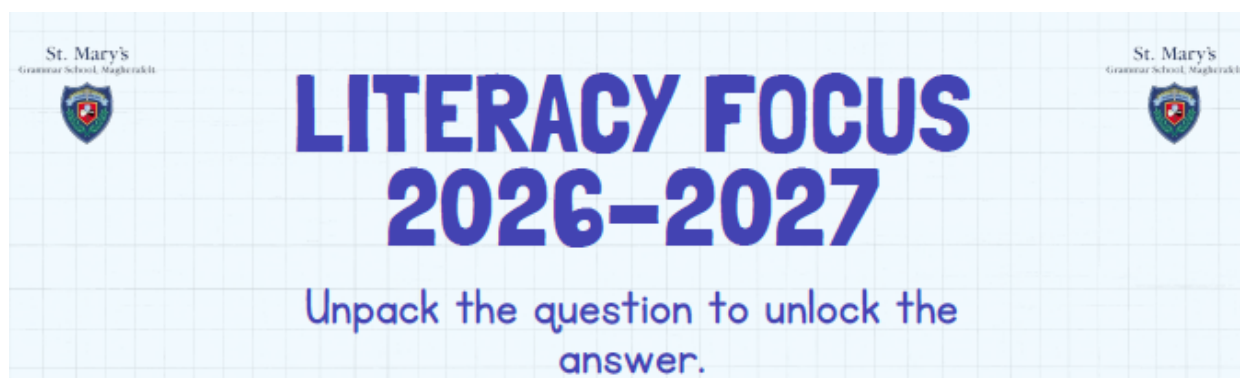
EXAMINATION TIMETABLE

YEAR 13	Friday 27 November	Monday 30 November	Tuesday 1 December	Wednesday 2 December	Thursday 3 December	Friday 4 December
Session 1 <i>Periods 1 & 2</i>	MRLP CLASSES Biology 9.15-10.45 Library BTEC Construction 9.15-10.15 Library	Geography 9.15-10.30 Library SSD 9.15-10.15 Library	MRLP CLASSES Irish Paper 1 9.15-10.00 Library Spanish Paper 1 9.15-10.00 Library	Chemistry 9.15-10.45 Library	Business Studies 9.15-10.45 Library	MRLP CLASSES Maths AS2 9.15-10.00 Library MIA 9.15-10.45 B3
Session 2 <i>Periods 3 & 4A</i>	Digital Technology 11.15-12.35 Library English Lit Paper 1 11.15-12.15 Library	Maths AS1 11.15-12.45 Library BTEC Sport 11.15-12.30 Study Centre	Religion 11.15-12.35 Library Physics AS1 11.15-12.15 Library	Life and Health Sciences 11.15-12.15 Library Physics AS2 11.15-12.15 Library	MRLP CLASSES Irish Paper 2 11.15-12.00 Library Spanish Paper 2 11.15-12.00 Library	Economics 11.15-12.45 Library
Session 3 <i>Periods 5 & 6</i>	History (Germany) 2.00-2.45 Library Technology 2.00-3.00 Library	History (Russia) 2.00-2.45 Library	Physical Education 2.00-3.30 Library	English Lit Paper 2 2.00-3.00 Library BTEC Engineering 2.00-3.00 Library	Art & Design 2.00-3.30 Art Room Physics AS3 2.00-3.00 J3	NO EXAMS

EXAMINATION TIMETABLE (25% ET)

YEAR 13	Friday 27 November	Monday 30 November	Tuesday 1 December	Wednesday 2 December	Thursday 3 December	Friday 4 December
Session 1 <i>Periods 1 & 2</i>	MRLP CLASSES Biology 9.15-11.08 Library BTEC Construction 9.15-10.30 Library	Geography 9.15-10.49 Library SSD 9.15-10.30 Library	MRLP CLASSES Irish Paper 1 9.15-10.11 Library Spanish Paper 1 9.15-10.11 Library	Chemistry 9.15-11.08 Library	Business Studies 9.15-11.08 Library	MRLP CLASSES Maths AS2 9.15-10.11 Library MIA 9.15-11.08 B3
Session 2 <i>Periods 3 & 4A</i>	Digital Technology 11.15-12.55 Library English Lit Paper 1 11.15-12.30 Library	Maths AS1 11.15-1.08 Library BTEC Sport 11.15-12.49 Library	Religion 11.15-12.55 Library Physics AS1 11.15-12.30 Library	Life and Health Sciences 11.15-12.30 Library Physics AS2 11.15-12.30 Library	MRLP CLASSES Irish Paper 2 11.15-12.11 Library Spanish Paper 2 11.15-12.11 Library	Economics 11.15-1.08 Library
Session 3 <i>Periods 5 & 6</i>	History (Germany) 2.00-2.56 Library Technology 2.00-3.15 Library	History (Russia) 2.00-2.56 Library	Physical Education 1.47-3.40 Library	English Lit Paper 2 2.00-3.15 Library BTEC Engineering 2.00-3.15 Library	Art & Design 1.47-3.40 Art Room Physics AS3 2.00-3.15 J3	NO EXAMS

LITERACY FOCUS



<u>Analyse</u> Break down information and look at the different parts	<u>Estimate</u> Make an educated guess	<u>Apply</u> Use knowledge in a practical way
<u>Evaluate</u> Make a judgement based on evidence	<u>Argue</u> Give reasons for and against something	<u>Examine</u> Investigate closely and in detail
<u>Assess</u> Make an informed judgement	<u>Explain</u> Give reasons why or how	<u>Calculate</u> Work out the answer
<u>Explore</u> Investigate without jumping to conclusions	<u>Comment</u> Give an informed opinion	<u>Give</u> Provide an answer from memory
<u>Compare</u> Point out similarities	<u>Identify</u> Name, label or recognise	<u>Complete</u> Finish a task by adding information
<u>Illustrate</u> Give examples to explain	<u>Consider</u> Think carefully about	<u>Interpret</u> Explain the meaning of
<u>Contrast</u> Point out differences	<u>Justify</u> Give evidence to support reasons	<u>Criticise</u> Point out the good and the bad compared to what was expected
<u>Outline</u> Summarise the main points	<u>Debate</u> Discuss different views	<u>Prove</u> Use evidence to show something is right
<u>Deduce</u> Reach a conclusion from information provided	<u>Relate</u> Show connections between things	<u>Define</u> State the meaning of
<u>Review</u> Survey and summarise	<u>Describe</u> Say what something is like using details and examples	<u>State</u> Express clearly

ART & DESIGN

EXPERIMENTAL PORTFOLIO	
1	Statement of Intent (300wds)
2	Title Page
3	Contextual 1 & 2 research
4	Pencil/Graphite & Photographs
5	Monochromatic
6	Printmaking
7	Pen
8	Pastel
9	Paint
10	Textiles
11	Experimentation Using Photoshop / Digital Development
12	Exam – Mixed media studies derived from Photoshop Experiments

EXPERIMENTAL WORKBOOK	
1	Written & Visual Idea Maps
2	Brief/Statement & Photos
3	Drawing research & copy
4	First Hand Drawing Media experiments x 2 A3
5	Printmaker research & copy
6	First Hand Print Media experiments x 2 A3
7	Pastel research & copy, first hand experimentation
8	Wet Media research & copy
9	Wet Media experiments x 2 A3
11	Textiles research & copy
12	First Hand Textiles Media experiments x 2 A3
13	Lens based (Photography) Research
14	Lens based (Photography) Experimentation

BIOLOGY

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	• Biochemistry (Molecules) • Nucleic acids (DNA and RNA)
Monday 9 November 2026	• Cells/Viruses/ Cell Membrane
Monday 16 November 2026	• Enzymes
Monday 23 November 2026	• Cell division Mitosis • Osmosis
Friday 27 November 2026	Mock Examinations Commence

BUSINESS STUDIES

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	• Enterprise and Entrepreneurship • Adding value and Competitive Advantage • Markets and Market Forces
Monday 9 November 2026	• Forms of Business Ownership • Stakeholder Groups • Motivation
Monday 16 November 2026	• Organisational Design • Quality
Monday 23 November 2026	• Investing in People • Management and Leadership • Productivity and Investment
Friday 27 November 2026	Mock Examinations Commence

CHEMISTRY

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	• Formula & Equations • AS1 Mole Calculations • Water of crystallisation
Monday 9 November 2026	• Atomic Structure and Mass Spectrometer • Bonding • Shapes of Molecules and Ions
Monday 16 November 2026	• Ionisation Energies • Intermolecular Forces • Structure • Redox
Monday 23 November 2026	• Group II • Titrations • Nomenclature and Isomerism • Alkanes and Alkenes
Friday 27 November 2026	Mock Examinations Commence

CONSTRUCTION

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	A1 Properties of materials Material properties, terminology and use in construction A2 Properties of construction materials Key properties of construction materials, how they work together to provide composite performance and properties, how they impact on performance in use and on the specification of materials for different scenarios and levels of exposure to the elements. B1 Solving Practical Construction Problems Algebraic Techniques Collecting Like Terms Expanding Brackets Indices Rearranging Formula
Monday 9 November 2026	A3 Manufacturing and processing of construction materials The manufacturing, processing and technology of construction materials and how this impacts properties and fitness for purpose.

Monday 16 November 2026	A4 Degradation of construction materials The impact of the environment on building materials for various scenarios, degradation methods and types, preventive and reduction measures, and impact of failure of a single material in a composite element. B1 Solving Practical Construction Problems Substitution Values into Formula Simultaneous Equations Quadratic Equations Accuracy on Calculations Signification Figures / Standard Form
Monday 23 November 2026	A5 Effects of temperature changes on construction material. A6 Behaviour of structural members under load B1 Solving Practical Construction Problems Geometric Techniques Pythagoras Theorem Trigonometry Graphical Techniques Mensuration Techniques for QS and buying.
Friday 27 November 2026	Mock Examinations Commence

DIGITAL TECHNOLOGY

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	AS1 • Reasons for systems development • Explain the impact of the 'software crisis'. • Describe the roles of the following during systems development: – the systems analyst; – the project manager; and – the programmer AS2 • Distinguish between data, information and knowledge by using examples ○ introduction to the importance of information to organisations ○ define what is meant by the terms knowledge, information and data ○ identify data, information and knowledge for common scenarios • The Quality of Information ○ understand that information should be accurate, up-to-date, complete, relevant, reliable and presented effectively; • Data Validation and Verification ○ define data validation and data verification ○ describe and apply the following data validation methods: range, type, length, format, presence, Modulus 11 check digit and lookup ○ understand the purpose of data verification methods: double entry, proofreading, check-digits and batch totals (hash and control) ○ explain the limitations of data validation and data verification
Monday 9 November 2026	AS1 • Analysis

	○ evaluate different fact-finding techniques: interviews, questionnaires, observation and document sampling ○ distinguish between functional and non-functional user requirements in systems, such as stock control, reservation, payroll and billing ● Design ○ describe the purpose of systems design, development and testing ○ describe the use of storyboarding in developing the user interface; ○ describe the use of prototyping in the design of the user interface and the data model AS2 ● Bits and Bytes ○ explain the terms bit, byte, kilobyte, megabyte, gigabyte and terabyte ○ demonstrate that 2ⁿ different values can be represented when using n bits (maximum n = 8) ● Binary and Decimal ○ Perform conversions from decimal to binary and from binary to decimal for a maximum of 8 bits ○ Demonstrate how the two's complement system can represent positive and negative numbers in binary using 8 bits ○ Demonstrate how ASCII and Unicode are used to represent characters
Monday 16 November 2026	AS1 ● Testing ○ distinguish between different types of testing ○ understand the purpose of a test plan ○ describe the main components of a test plans ○ distinguish between different types of test data;

	AS2 • Architecture ○ Describe the internal components of a computer system: processor, clock, main memory, cache memory, buses (address, data and control), I/O controllers, registers and ports ○ Describe the fetch-execute cycle ○ Evaluate the factors that can influence the speed of processing: processor type, cache size and clock speed ○ Explain the need for secondary storage ○ Describe secondary storage media: magnetic, optical and flash ○ Evaluate the use of secondary storage media for common applications
Monday 23 November 2026	AS1 Implementation ○ Describe the purpose of system implementation; ○ Evaluate different changeover methods: parallel, direct, pilot and phased; ○ Describe the different types of documentation: user documentation and technical documentation, and explain how they are used; ○ Explain what is meant by data conversion; ○ Describe the purpose of system maintenance; and evaluate different forms of maintenance: corrective, adaptive and perfective. AS2 The User Interface ○ Describe the main features of different types of user interface: windows, icons, menu, pointer (WIMP), command line and forms dialogue ○ Evaluate different types of user interface: WIMP, command line and forms dialogue

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	○ Describe how text, sound and video can be input using a range of devices, such as personal computers, laptops, tablets or smartphones. <i>Continue to revise all the above topics in detail Study/Complete Past Paper Questions</i>
Friday 27 November 2026	Mock Examinations Commence

SOFTWARE SYSTEMS DEVELOPMENT

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	Program control structures • Sequence • Repetition (unconditional and conditional) • Selection (if, nested if, switch) • Methods
Monday 9 November 2026	Data structures • Arrays (outputting values, populating arrays with values) • Sorting an array (bubble sort)
Monday 16 November 2026	Data structures • Searching through arrays (linear, binary) • 2-dimensional arrays
Monday 23 November 2026	Defining data • Classes
Friday 27 November 2026	Mock Examinations Commence

ECONOMICS

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	• Key Economic Concepts • The Basic Economic Problem
Monday 9 November 2026	• Demand and Supply in Product markets to include; - Diminishing marginal utility - Consumer and Producer Surplus - Rationality - Shifts in D&S
Monday 16 November 2026	• Market Equilibrium to include; - Equilibrium - Interrelated Markets - Community Surplus - Incidence of indirect tax - Subsidies • Market Failure

Monday 23 November 2026	• Government Intervention • Labour Markets • Elasticity to include - Calculations and interpretations of Price, Income and Cross elasticity and their significance. - Impact on changes to TR. - Usefulness
Friday 27 November 2026	Mock Examinations Commence

ENGINEERING

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	○ Indices ○ Linear Equations and straight-line graphs ○ Simultaneous equations ○ Equation of a line
Monday 9 November 2026	○ Quadratic Equation ○ Factorising ○ Logs
Monday 16 November 2026	○ Mensuration ○ Triangular Measure ○ Sine/ Cosine rule
Monday 23 November 2026	○ Vectors ○ Angular Measure ○ Any uncompleted Past Paper Questions
Friday 27 November 2026	Mock Examinations Commence

ENGLISH LITERATURE

Exam requirements: you will answer 2 essay questions; one on *A Streetcar Named Desire* and one on *Frankenstein*

Time: 2 X 45 minute papers

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	<i>A Streetcar Named Desire:</i> • Revise all Contextual Notes on 'Streetcar' – biographical, social, cultural, historical, literary and political • Revise Quotes on all scenes <i>Frankenstein</i> Narrative Methods, quotes, context and critics relating to the characterisation of Victor Frankenstein.
Monday 9 November 2026	<i>A Streetcar Named Desire:</i> • Re-read 'Streetcar' Scenes 1 -3 • Revise all Staging Methods notes, all Character Development Notes and all Theme notes • Revise all Quotes <i>Frankenstein</i> Narrative Methods, quotes, context and critics relating to the 'Romantic' Genre.
Monday 16 November 2026	<i>A Streetcar Named Desire:</i> • Re-read Scenes 4 -8 • Revise all Staging Methods notes, all Character Development Notes and all Theme notes • Revise all Quotes

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	<i>Frankenstein</i> Narrative Methods, quotes, context and critics relating to the characterisation of the creature.
Monday 23 November 2026	<i>A Streetcar Named Desire:</i> • <i>Re-read Scenes 9-11</i> • Revise all Staging Methods notes, all Character Development Notes and all Theme notes • Revise all Quotes • Read over exemplar essays/responses and mark-schemes <i>Frankenstein</i> Narrative Methods, quotes, context and critics relating to the 'Sci-Fi' Genre.
Friday 27 November 2026	Mock Examinations Commence

GEOGRAPHY

Week Beginning	Topic(s) to Revise
Monday 2 November 2026 Fluvial Systems	Be able to: i) explain how the drainage basin operates as an open system with inputs, outputs, stores and transfers of energy and matter. ii) understand storm and annual hydrographs (regimes) and explain the factors that influence them – relief, basin size and shape, soil, geology, land use, drainage density and precipitation. iii) understand river processes – erosion (abrasion/corrasion, attrition, hydraulic action, solution/corrosion), transportation (suspension, solution, saltation, traction) and deposition (Hjulström Curves)
Ecosystems (Global Biomes)	iv) identify the global distribution of biomes – tundra, tropical rainforest, hot desert and temperate grassland; v) demonstrate knowledge and understanding of the climate and soils associated with tundra and temperate grassland biomes; and vi) evaluate the actual and potential impacts of climate change on a regional scale case study of a tundra ecosystem (Alaska).

Ecosystems (Small Scale Ecosystems)	iii) investigate the causes of recent flooding and its effects on people, property and the land, including one case study from a LEDC, Pakistan iv) demonstrate knowledge and understanding of plant succession: Seral stages, climatic climax vegetation and plagioclimax vegetation case study of plant succession at the small or regional scale (case study: Umbra sand dunes).
Monday 23 November 2026 The processes that shape our weather and climate	Be able to: i) demonstrate knowledge and understanding of the global energy balance, including vertical and horizontal heat transfers and the role of ocean currents; ii) demonstrate knowledge and understanding of the general circulation of the atmosphere, including surface pressure belts, winds, the tri-cellular model, jet streams and upper westerlies; iii) explain the factors that influence temperature, including latitude, continentality, altitude and seasonality. iv) explain the formation of precipitation (orographic or relief, frontal and convectional);

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Population data	v) distinguish between: – national census taking; and – vital registration; vi) demonstrate knowledge and understanding of the contrasts between MEDCs and LEDCs in relation to: – the reliability of data; – how the data is collected; and – the use made of the data; For vi two contrasting national case studies, one from an MEDC, for example UK, and one from an LEDC, for example Nigeria
Friday 27 November 2026	Mock Examinations Commence

HISTORY

Week Beginning	Topic(s) to Revise: Germany	Topic(s) to Revise: Russia
Monday 2 November 2026	<u>The Weimar Republic 1919-29</u> • The National Constituent Assembly, the Weimar Constitution and the main terms of the Treaty of Versailles • The political threats to the Weimar Republic from left and right 1919–23 • The reasons for the economic instability of the Weimar Republic 1919–23	<u>February revolution –</u> • The short-term factors that led to the downfall of the Tsar in February 1917 • The economic, political and military effects of the First World War on Russia • The misjudgements and mistakes of Tsar Nicholas II, such as leaving government in the hands of the Tsarina and Rasputin
Monday 9 November 2026	• The strengths and weaknesses of the economy 1924–29 and the extent of economic recovery The development of the Nazi Party 1923–29, including the Munich Beer Hall Putsch, the significance of the Bamberg Nazi Party conference, the creation of the national party structure and the contributions of Strasser and Goebbels	<u>October Revolution</u> • The factors that led to the downfall of the Provisional Government and the Bolshevik seizure of power in October 1917 • The weaknesses and failures of the Provisional Government, the Petrograd Soviet and dual authority

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		• The strengths of the Bolsheviks: the leadership of Lenin, the April Theses, the role of Trotsky and the Military Revolutionary Committee
Monday 16 November 2026	<u>The fall of the Weimar Republic</u> • The economic and political impact of the Wall Street Crash on the Weimar Republic 1929–33 • The decline of parliamentary government and the rise of presidential government • The collapse of Müller's Grand Coalition and the impact of Brüning's policies	<u>Civil war</u> The relative importance of the various factors that led to the Bolshevik victory in the Civil War 1918–21 • The strengths of the Bolsheviks: the role of Trotsky, the Red Army, economic and geographical advantages and the weaknesses of the Whites: divisions and foreign intervention
Monday 23 November 2026	<u>The rise of the Nazis</u> The electoral breakthrough of the Nazis in Presidential and Reichstag elections 1929–33 • The roles of von Schleicher, von Hindenburg and von Papen and 'political intrigue', leading to Hitler's appointment as Chancellor on 30 January 1933	<u>Bolshevik economic policy</u> State capitalism, war communism and the NEP : State Capitalism • State control of capitalist businesses • Partial nationalisation • Aimed to increase popularity of Communism

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		• Used as Bolsheviks needed to survive, sign of desperation • November 1917: the 'Decree on Land' and the 'Decree on Workers' Control' War Communism • Sole aim was to win the Civil War • Extensive nationalisation introduced • State control of foreign trade • Strict controls on workers, no strikes • Grain requisitioning • Use of Red Terror • Introduction of rationing • Private enterprise banned • Political and economic aims New Economic Policy • Tambov Risings and the Kronstadt mutiny • Anger at War Communism • Need to maintain public support • Grain requisitioning abolished • Small businesses reopened (return to capitalism)
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		• Ban on private trade removed • State control of heavy industry • Split in Bolshevik Party • Emergence of Nepmen
Friday 27 November 2026	Mock Examinations Commence	

IRISH

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	Oral Topic: Mé Féin agus Mo Theaghlach Past, Present & Future Tenses Review of Context One, Éisteachtaí & Aistriúcháin Synonyms & Antonyms
Monday 9 November 2026	Oral Topic: Fadhbanna Teaghlaigh Autonomous for all Tenses Review of Context One, Éisteachtaí & Aistriúcháin
Monday 16 November 2026	Oral Topic: Caitheamh Aimsire Conditional Tense Yu Ming is ainm dom: Notes
Monday 23 November 2026	Presentation Yu Ming is ainm dom: Sample Essays Memrise: AS: Context 1 – Relationships- Link on Google Classroom
Friday 27 November 2026	Mock Examinations Commence

LIFE AND HEALTH SCIENCES

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	Chemical Calculations Volumetric Analysis
Monday 9 November 2026	Cardiovascular System
Monday 16 November 2026	Energetics
Monday 23 November 2026	Respiratory System
Friday 27 November 2026	Mock Examinations Commence

MATHEMATICS

Week Beginning	Topic(s) to Revise for AS1 mock	Topic(s) to Revise for AS2 mock
Monday 2 November 2026	Algebra & Indices and Surds	Sampling
Monday 9 November 2026	Quadratic equations and inequalities	Kinematics
Monday 16 November 2026	Algebraic fractions & Remainder and Factor Theorem	Kinematics Data Presentation and Interpretation
Monday 23 November 2026	Graphs and Transformations Coordinate geometry	Data Presentation and Interpretation
Friday 27 November 2026	Mock Examinations Commence	

MOVING IMAGE ARTS

<u>Week Beginning</u>	<u>Topic(s) to Revise</u>
Monday 2 November 2026	Classic Hollywood Style – invisible editing; – linear continuity; – the 180 degree rule; – eye line matches; – shot/reverse-shot; and – use of establishing shots Hitchcock Pure Cinema Auteur Hitchcock's cinematic style: – point-of-view (POV) camera and editing technique; – dynamic camera movements; – high-angle shots; – expressive use of the close-up; – cross-cutting; – montage editing; – expressionist lighting techniques; and – using music to create emotion;

	Narrative Rules of Suspense Influence of Cinematic style
Monday 9 November 2026	Formalism - German Expressionism • German Expressionist Cinema of the 1920s as both an alternative to and an influence on mainstream Hollywood cinema; • explain the industrial context and prominence of German Expressionist Cinema and the German film industry's own studio system; • demonstrate an awareness of the relationship between German Expressionist Cinema and the expressionist movement in art; • identify the formalist style of German Expressionism and explain how it challenged the conventions of the continuity style;
Monday 16 November 2026	• discuss the following elements of German Expressionist

	Cinema and explain their purpose: – iconography; – setting; – narrative; – style; – characters; and – themes;
Monday 23 November 2026	German Expressionism • discuss the contribution German Expressionism made to the development of Hollywood genres such as horror, crime and science fiction; • explain the influence of German Expressionism on the work of contemporary film-makers;
Friday 27 November 2026	Mock Examinations Commence

PHYSICAL EDUCATION

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	Sport, culture and society Definitions of culture, society and social institution. The role of sport within society. Sport as a means of social control; as a social institution, as a mechanism of socialisation and as a form of national identity. The importance of sport as a vehicle for the promotion of societal and cultural values such as (but not limited to) respect for authority, conforming to rules and regulations and importance of competition. The use that governments make of sport.
Monday 9 November 2026	Emergence of modern sport The role of the 19th century English public school and university system (three stages of development) in the codification and rationalisation of modern sport. The movement from amateurism to professionalism to commercialisation of modern sport. Amateurism and Olympism. Issues of shamateurism. Use of sport as a political tool. Boycotts, protests, diplomacy and promotion of national identity.
Monday 16 November 2026	Energy systems and their application to training principles

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	Role of adenosine triphosphate (ATP) and how it is restored through the use of creatine phosphate (ATPPC system), anaerobic glycolysis (lactic acid system) and aerobic glycolysis. Energy systems and their application in planning training programmes.
Monday 23 November 2026	Preparation and training methods Components of fitness: health-related components (aerobic capacity, muscular strength, muscular endurance, body composition, flexibility) and skill related components (agility, balance, co-ordination, speed, power and reaction time). Methods of training: weight, continuous, fartlek, interval including high intensity training (HIT), plyometrics, circuit and mobility/flexibility.
Friday 27 November 2026	Mock Examinations Commence

BTEC SPORT

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	Booklet 1: Skeletal System: A1 Structure of skeletal system A2 Function of skeletal system A3 Joints A4 Responses of the skeletal system to a single sport or exercise session A5 Adaptations of the skeletal system to exercise A6 Additional factors affecting the skeletal system
Monday 9 November 2026	Booklet 2: Muscular System B1 Characteristics and functions of different types of muscles B2 Major skeletal muscles of the muscular system B3 Antagonistic muscle pair B4 Types of skeletal muscle contraction B5 Fibre types B6 Responses of the muscular system to a single sport or exercise session B7 Adaptations of the muscular system to exercise B8 Additional factors affecting the muscular system
Monday 16 November 2026	Booklet 3: Respiratory System C1 Structure of the respiratory system C2 Function of the respiratory system C3 Lung volumes – e.g. vital capacity, residual volume, tidal volume etc

	C4 Control of breathing – neural and chemical C5 Responses of the respiratory system to a single sport or exercise session C6 Adaptations of the respiratory system to exercise C7 Additional factors affecting the respiratory system
Monday 23 November 2026	Booklet 4: Cardiovascular System D1 Structure of the cardiovascular system D2 Function of the cardiovascular system D3 Nervous control of the cardiac cycle D4 Responses of the cardiovascular system to a single sport or exercise session D5 Adaptations of the cardiovascular system to exercise D6 Additional factors affecting the cardiovascular system
Friday 27 November 2026	Mock Examinations Commence

PHYSICS

Week Beginning	Topic(s) to Revise AS
Monday 2 November 2026	AS1 1.1.1 – 1.2.1 Base units/prefixes/scalars and vectors AS2 2.1.1 – 2.1.8 waves
Monday 9 November 2026	AS1 1.9.1 – 1.9.5 Electric current and charge, P.d., emf AS2 2.2.1 – 2.2.6. Refraction Endoscope
Monday 16 November 2026	AS1 1.10.1 – 1.10.7 Resistance and resistivity Circuit rules Resistance Superconductivity
Monday 23 November 2026	AS1 1.10.8 – 1.12.3 Ohmic and Non-Ohmic conductors Internal resistance Potential dividers AS2 2.3.1 – 2.3.8 Lenses
Friday 27 November 2026	Mock Examinations Commence

PRODUCT DESIGN

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	Material selection Students should be able to consider the following when selecting a material: – functional requirements (properties and characteristics); – manufacturing demands (scale of production and suitability of manufacturing process); – environment (corrosion resistance and stability); – availability (common forms and sizes); – cost; and – appropriate joining techniques; Demonstrate knowledge and understanding of: – physical properties: density, electrical and thermal conductivity; and – mechanical properties: strength, elasticity, plasticity, toughness, hardness, durability and brittleness
Monday 9 November 2026	Wood Demonstrate knowledge of hardwoods and softwoods; Demonstrate knowledge and understanding of the properties, working characteristics and uses of pine, ash, beech, oak and mahogany; Demonstrate knowledge of the available form of supply of woods (common lengths,

	rough sawn and planed all round (PAR) sizes); Demonstrate an understanding of the main advantages and uses of manufactured boards: plywood, blockboard, chipboard, hardboard and medium density fibreboard (MDF) Demonstrate an understanding of the main purposes and types of finishes for wood stains, oils, polishes, paints and synthetic resins, veneers (such as beech, ash, oak,) and laminates (such as Formica). Metal Students should be able to: Demonstrate knowledge of the available form of supply of metals; Understand the difference between ferrous and non-ferrous metals and alloys; Demonstrate knowledge and understanding of the properties, working characteristics and uses of: aluminium, aluminium alloys, copper, brass, zinc, steel (mild, medium and high) and stainless steel; Demonstrate an understanding of the main purposes and types of finishes for metals: painting, plastic coating, electroplating, anodising, enamelling and lacquering
Monday 16 November 2026	Plastic Understand the difference between thermoplastic and thermosetting plastics; Demonstrate knowledge and understanding of the properties, working characteristics and uses for the following polymers:

	– high-density polyethylene (HDPE); – low-density polyethylene (LDPE); – polyethylene terephthalate (PET); – polystyrene; – polyvinyl chloride (PVC); – acrylic, nylon, acrylonitrile butadiene styrene (ABS); – melamine-formaldehyde; and – epoxy resins; and Methods of processing materials Students should be able to: Demonstrate knowledge and understanding of: – wasting, including workshop hand tools, manual and computer numerical control (CNC) machine tools; – forming, including rolling, blanking, press forming and forging; – moulding, including injection moulding, blow moulding, rotational moulding, vacuum forming, sand casting and pressure die casting; – extrusion
Monday 23 November 2026	Modern composite and emerging technologies Demonstrate knowledge, understanding and applications for the following modern materials, and their application in product design, to include: – thermochromic and photochromic materials; – phosphorescent pigments; – reflective films and holograms;

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	– liquid crystal displays; – polyether ether ketone (PEEK); – polyphenylsulfone (PPSU); and – graphene. Design Task/question
Friday 27 November 2026	Mock Examinations Commence

RELIGION

Week Beginning	<u>Topic(s) to Revise for AS1</u> <u>Luke's Gospel</u> (Mrs. Kearney)	<u>Topic (s) to Revise for AS7</u> <u>Foundation of Ethics: Medical Ethics</u> Mrs Cush
Monday 2 November 2026	<u>Background to the Gospel:</u> • Historical and Political Context of Jesus' mission: • The political and religious situation in first-century Palestine. • The beliefs and practices of the Pharisees and Sadducees • The influence and role of the Pharisees and Sadducees in Luke's Gospel • Luke's presentation of the Pharisees and the Sadducees including their interaction with Jesus • Impact of Roman occupation on Jesus' ministry • Positive and negatives aspects of Roman rule in Palestine • The role of Herod and Pilate • Human Experience - problems posed by religious divisions and the opportunity for religious and ethical enrichment	<u>Deontological Approaches to Decision Making – The Decalogue & The Sermon on the Mount</u> • knowledge and understanding of, and Christian Scriptures, including: • the role of the Decalogue and the Sermon on the Mount; • the nature of biblical ethics; and • the role played by moral commands;
Monday 9 November 2026	<u>Background to the Gospel:</u> • Sources of Luke • Luke/Acts as a two volume Christian Apology • Authorship • Date	<u>Deontological Approaches to Decision Making – Natural Moral Law</u> • demonstrate knowledge and understanding of, and • critically evaluate natural moral law, including: • origins and historical development over the centuries;

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		- principles and key features; and - proportionalism. - Kantian ethics
Monday 16 November 2026	<u>Background to the Gospel:</u> - Purposes and characteristics of the Gospel - The historical accuracy and reliability of Luke's Gospel	<u>Deontological Approaches to Decision Making – Ethics and Relativism & Utilitarianism</u> - demonstrate knowledge and understanding of, and - critically evaluate utilitarianism, including: - origins and development with particular reference to - the contribution of Bentham, J S Mill and Singer; - principles and key features; and - Christian utilitarianism; Part A questions and Part B critical questions should be explored in all topics.
Monday 23 November 2026	<u>Key narratives in Luke's Gospel • Infancy Narrative</u> - The importance of the opening two chapters of the Gospel (1:5–2:52) - The annunciations of the births of Jesus and John (1:5–38) - The birth stories of Jesus and John (1:57–2:7) - The visit of the shepherds (2:2–20) - The Presentation in the Temple (2:21–40) - The boy Jesus at the Temple (2:41–52)	<u>Teleological Approaches to Decision Making – Situation Ethics</u> - demonstrate knowledge and understanding of, and - critically evaluate situation ethics, including: - origins and development; - the influence of the moral teaching of Jesus and Paul; - key principles; - the nature of love; and - the relationship between situation ethics and - utilitarianism; and
Friday 27 November 2026	Mock Examinations Commence	

SPANISH

Week Beginning	Topic(s) to Revise
Monday 2 November 2026	Topic 1 – Different family structures Topic 2 – Roles, responsibilities and relationships within families Oral Questions on the topics above Grammar – Nouns Grammar – Articles Grammar – The Present Tense Grammar – The Preterite Tense Literature – Rosa and interaction with daughter
Monday 9 November 2026	Topic 3 – Challenges for families Topic 4 – Intergenerational issues Oral Questions on the topics above Grammar – Adjectives Grammar – Numerals Grammar – The Imperfect Tense Grammar – The Future Tense Literature - Rosa and Don Emilio
Monday 16 November 2026	Speaking Exam will take place during class time. Topic 5 – Influences on young people (peers, family, friends...) Oral Questions on the topics above Grammar – The Conditional Tense Grammar – The Perfect Tense Literature – Rosa and the traditional role of women
Monday 23 November 2026	Listening Exam will take place during class time.

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	Topic 6 – Physical well-being (diet, exercise...) Oral Questions on the topics above Grammar – Adverbs Literature – Rosa and her submission towards her husband
Friday 27 November 2026	Mock Examinations Commence