YEAR 10 CURRICULUM MAP 2025 - 26

MANCHESTER ISLAMIC GRAMMAR SCHOOL FOR GIRLS
FAITH • LEARNING • LIFE

SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
ARABIC	**School** Talk about my school Learn about school subjects Talk about school day Talk about uniform Talk about school trips Use the conditional	**Future Aspirations, Study and Work** Talk about work Talk about work places Talk about future plans Talk about part-time jobs Express purpose Apply for a job Write a cover letter Describe personal qualities Talk about job requirements Talk about professional profile Learn about writing formal letters	**International and Global Dimension** To be able to recognise world issues Suggest solutions Discuss environmental problems Protect the environment Use the imperative Talk about volunteering Discuss big events Give arguments for and against	**Local Area, Holiday & Travel** Talk about the weather Use 'to be' [kaana] كان Describe a town Use 'lots of' Use of irregular verbs Give directions Use the imperative mood Talk about problems in my town Talk about living in the countryside Talk about modes of transport Say why you prefer a certain mode of transport Describe community projects Use time expressions	**Identity and Culture** **My Daily Routine** Talk about their daily routine Use combination of tenses **Eid Mubarak** Describe festivals and traditions Use the plural	**Identity and Culture** To name the items of clothing in Arabic To describe clothes To use demonstratives To express exclamation To use basic shopping vocabulary

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
ART	**ANALYTICAL DRAWING CUBISM/CAULFIELD** Still life-draw a group of chosen objects and arrange them in an interesting manner. Accurate drawing and tonal variations. Look at the artists who founded cubism. Write about the artists showing their work with printed pictures and own drawings of their work. Create work in this style with drawings, paintings, mixed media in 2D /3D	**2D INTO 3D PERSONAL STUDY** Choose one project from the art list provided by your art teacher and research the history of two artists/crafts people. Write about their biography with pictures and your own drawings/painting of the artist's work. Produce a mind map relating to your project, using words, places, people, photographs, drawings, objects etc.	**PERSONAL STUDY continued** Make drawings, paintings, collage, photos of chosen area of study. Expand on your ideas, investigation with a variety of mediums. Produce work in 2D and 3D. Include thoughts, feelings, ideas and analyse about their work and your own work, include annotations, notes.	**PERSONAL STUDY** Choose one project from the art list and research the history of two artists/crafts people. Write about their biography with pictures and your own drawings/painting of the artist's work. Produce a mind map relating to your project, using words, places, people, things, etc. 2D and 3D work.	**PERSONAL STUDY** Research the history of artists and crafts people, mind mapping. Make drawings, paintings, collage, photos of chosen area of study. Expand on your ideas, investigation with a variety of mediums.	**PERSNAL STUDY** Write about your thoughts, feelings, and your own ideas and analyse their work and your own work.

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
COMPUTER SCIENCE	**ADDITIONAL PROGRAMMING AND HARDWARE** -String Manipulation & String Methods -Selection statements and operators -Boolean Operators -Repetition -Assessment _____ -Array -Loops -Subprograms -Assessment _____ -Hardware Storage -Assessment	**ADDITIONAL PROGRAMMING TECHNIQUES & SYSTEMS** -String -Two-Dimensional List -Validation -Linear Search -Linear Search 2 -Assessment _____ -Operating Systems -File Management -Process Management -Peripherals and User Management -Utility Software -Assessment	**ADDITIONAL PROGRAMMING TECHNIQUES & MALWARE** -Merge Sort -Reading Files -String Processing -Writing Files -Authentication -Assessment _____ -Malware & Anti-Malware -Hackers -Social Engineering -Data Level Protection -Robust Software -Assessment	**ADDITIONAL PROGRAMMING TECHNIQUES & NETWORKS** -Turtle introduction, pens and lines -Turtle movement, Polygons, subprograms -Turtles pens, Colours, fillings and circles -Turtle combining subprograms and layers -Turtle big problem -Assessment _____ -LANS and WANS -Network Speed -Connectivity -Wired vs Wireless -Network Topologies -Assessment	**ADDITIONAL PROGRAMMING TECHNIQUES** -Introduction to Programming -Subprograms -Local & Global Variables -Math and Time library modules -Problem Solving -Assessment	**SYSTEMS** -Embedded Systems -The Internet of things -Packet Switching -TCP/IP1 -TCP/IP2 -Assessment

IMEDIA	**<u>I Media (Students)</u>** **<u>R093 – Creative iMedia in the media industry (External exam)</u>** Job roles in Media Industry - How style, content and layout are linked to the purpose - Client requirements and how they are defined - Audience demographics and segmentation - Research methods, sources and types of data	**<u>I Media (Students)</u>** R093 – Creative iMedia in the media industry (External exam) **(CONTINUATION)** -Work Planning - Documents used to support ideas generation - The legal issues that affect media -Revision. -Mock exam	**<u>I Media (Students)</u>** R094 – Visual identity and digital graphics (Internal non-examined assessment) -Purpose, features, elements and design of visual identity -Graphic design concepts and conventions - Properties of digital graphics and use of assets	**<u>I Media (Students) (Continuation)</u>** R094 – Visual identity and digital graphics (Internal non-examined assessment	**<u>I Media (Students)</u>** R094 – Visual identity and digital graphics (Internal non-examined assessment Submission R094 NEA June submission	**<u>I Media (Students)</u>** <u>Option unit continued</u> R093 – Creative iMedia in the media industry (External exam) Revision. Practice exam.

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
ENGLISH	**LANGUAGE** **Creative Reading and Writing: Lang. Paper 1** - comprehension skill - language and structural analysis - writing a mini practical criticism (AO4) - narrative writing: planning and writing own narrative - descriptive writing from stimuli	**LITERATURE** - **Working with the Poetry Anthology** - work on meaning and interpretation - work on language and structure - work on exam format to build confidence - description in writing - writing a description from a picture - revision of 2 pairs of anthology poems and how to construct a comparative response	**LITERATURE** **Modern Set Text: Inspector Calls** - establish plot - character/themes - contextual awareness - staging/form/structure - language awareness/symbolism/imagery - discursive writing related to themes./character - how to plan and write for the exam using set formats - practice narrative writing based on the play (Lang) - Usimg non-fiction extracts linked to themes for intro to Paper 2 Lang -	**LANGUAGE** **Perspectives and Viewpoints Lang. Paper 2** - recapping comprehension skills - working with challenging C19thtexts - developing synthesis skills Lang P2 Q2 - developing language analysis skills Lang P2 Q3 - Evaluation of writer perspectives - discursive writing to argue/persuade	**LITERATURE** **Shakespeare Set Text: Macbeth** - thorough reading - establish plot - character studies - themes and ideas - dramatic structures/setting/devices - contextual considerations - different interpretations - extract based close reading AO1 and AO2 - planning for part to whole questions - practice exam tasks	**LANGUAGE** **<u>Spoken Language Endorsement</u>** - planning and structuring viewpoints into effective discursive writing to engage listener - forming a viewpoint: writing and delivering speeches for S and L assessments - recording of speeches for formal assessment for AQA

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FRENCH	**Theme / Topic:** Identity & Lifestyle – Relationships & Daily Life **CONTENT:** Family, friends, daily routine, mobile tech **GRAMMAR:** Present, perfect, reflexive verbs, comparatives/superlatives **SKILLS:** Reading, listening, speaking dialogues, writing paragraphs **PHONICS:** Liaison, stress, intonation **WRITING/ PHOTO CARD/ ESSAY:** Short descriptive paragraphs; describe photos of people **ASSESSMENT:** Speaking mini-presentation	**Theme / Topic:** Local & Global – Towns, Neighbourhoods, Social Issues **CONTENT:** Local area vocabulary, social issues, charity work **GRAMMAR:** Present, perfect tense, question forms, adjectives **SKILLS:** Reading comprehension; short essays; role-play dialogues **PHONICS:** Stress patterns, nasal vowels, intonation **WRITING/ PHOTO CARD/ ESSAY:** Describe town / social issue photos; essay on charity **ASSESSMENT:** mini-writing assessment and Winter mock exam	**Theme / Topic:** Free-Time & Media – Hobbies, Music, Films, Apps **CONTENT:** Expressing preferences, opinions, comparing activities **GRAMMAR:** Present, perfect, near future; aimer + infinitive, préférer + infinitive **SKILLS:** Reading longer texts; speaking opinions; writing paragraphs **PHONICS:** Liaison, –er/-ir verbs, consonant blends **WRITING/ PHOTO CARD/ ESSAY:** Describe photo; write short essay on free-time **ASSESSMENT:** mini speaking	**Theme / Topic:** School & Future Plans – School Life & Career Choices **CONTENT:** School subjects, timetable, rules, career ambitions **GRAMMAR:** Present, near future, devoir/pouvoir, comparatives **SKILLS:** Reading & listening comprehension; writing extended sentences; speaking dialogues **PHONICS:** Stress in multisyllable words; intonation **WRITING/ PHOTO CARD/ ESSAY:** Paragraph on school life; photo card description **ASSESSMENT:** discussion on career choices ;	**Theme / Topic:** Food, Health & Lifestyle **CONTENT:** Meals, shopping, healthy lifestyle, cultural habits **GRAMMAR:** Partitive articles, present & perfect, modal verbs, imperatives **SKILLS:** Reading menus, writing paragraphs, speaking role-play **PHONICS:** Liaison, elision; pronunciation of du/de la/des **WRITING/ PHOTO CARD/ ESSAY:** Writing about meals; describe food photos **ASSESSMENT: writing a dialogue**	**Theme / Topic:** Travel & Holidays **CONTENT:** Past & future holidays, transport, booking, directions **GRAMMAR:** Perfect & near future, irregular past participles, sequencing **SKILLS:** Travel diary writing, speaking role-play, reading dialogues **PHONICS:** Past participles, stress patterns **WRITING/ PHOTO CARD/ ESSAY:** Describe holiday photos; travel diary paragraphs **ASSESSMENT: Summer Exam** French/UK holidays

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
GEOGRAPHY	**UK Landscapes/ Rivers and fieldwork** Geological variations in the UK Physical and human processes create distinct UK landscapes Physical processes interact to shape the river landscape River erosion and deposition Human activities and the affects Located example: River Conwy **End of topic Assessment**	**Coasts** Physical processes interact to shape the coastal landscape Coastal erosion and deposition Human activities and the affects Located example: Holderness Coast Physical Fieldwork Winter exam	**Weather hazards and climate change** Atmospheric circulation Global climate was different in the past and continues to change Effect of human activity on the climate Tropical cyclones Located example: Hurricane Sandy on Cuba and Typhoon Haiyan on Philippines. The causes of drought Impact and response of drought Located examples: California and Namibia **End of topic Assessment**	**Biodiversity and management part one** Large scale ecosystems The biosphere The UKs distinct ecosystems Tropical rainforest The goods and services provided and which are under threat Located example: The Amazon **Mid topic assessment**	**Biodiversity and management part 2** Deciduous woodlands and the range of features Deciduous woodlands and the goods and services which some are under threat. Located example: Epping Forest **End of topic assessment**	Summer exam Responding to exam feedback **CHANGING CITIES** Urbanisation is a global process Urbanisation varies cross the UK UK city case study: Manchester Case study: Lagos

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
MATHS Foundation	**PERCENTAGES** • Compound interest • Growth and decay **SURFACE AREA AND VOLUME** • Surface area of pyramids, cones, spheres, and frustums • Volume of pyramids, cones, spheres and frustums **SIMULTANEOUS EQUATIONS** • Solving simultaneous equations using elimination • Solving simultaneous equations using substitution • Solving simultaneous equations graphically • Constructing and solving simultaneous equations **FORMULAE** • Changing the subject of formulae	**TRIGONOMETRY** • sin, cos and tan • Finding unknown sides and angles in right-angled triangles • Exact trig values • Angles of elevation and depression • Bearings **CONSTRUCTIONS** • Constructions and loci **LINEAR GRAPHS** • Finding the equation of a straight line from its gradient and a point • Finding the equation of a straight line from two points on the line • Equations of parallel lines • Equations of parallel and perpendicular lines	**REAL LIFE GRAPHS** • Plotting linear real-life graphs • Using and interpreting linear real-life graphs • Finding equations of linear real-life graphs • Sketch graphs of water flows **SET NOTATION** • Venn diagrams with set notation • Using set notation **TREE DIAGRAMS** • Tree diagrams for independent events • Tree diagrams for dependent events **COMPOUND MEASURES** • Calculating with density • Calculating with pressure	**RATIO** • Combining ratios • Calculating with ratios and algebra • Changing ratios **GRAPHS** • Plotting velocity-time graphs • Calculating acceleration from velocity-time graphs • Graphs of cubic functions • Graphs of reciprocal functions • Graphs of exponential functions **SEQUENCES** • Position-to-term rules for arithmetic sequences • Position-to-term rules for sequences of patterns • Position-to-term rules for geometric sequences	**HANDLING DATA** • Sampling and bias **PROPORTION** • Interpreting direct proportion equations • Interpreting inverse proportion equations • Graphs of direct and inverse proportion **TRANSFORMATIONS** • Combining transformations **ROUNDING** • Finding error intervals • Finding error intervals for truncated numbers **INDICES** • Index rules with positive indices • Index rules with negative indices • Simplifying expressions using index laws	**BRACKETS** • Expanding double brackets • Factorising quadratic expressions of the form $x^2 + bx + c$ • Factorising the difference of two squares • Factorising to solve quadratic equations of the form $x^2 + bx + c = 0$ **HANDLING DATA AND STATISTICAL DIAGRAMS** • Interpreting frequency tables with grouped data • Finding averages from grouped data • Drawing stem-and-leaf diagrams • Interpreting stem-and-leaf diagrams • Drawing line graphs • Interpreting line graphs Drawing and interpreting frequency polygons

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
MATHS Higher	**PERCENTAGES** • Compound interest • Growth and decay **SURFACE AREA AND VOLUME** • Surface area of pyramids, cones, spheres, and frustums • Volume of pyramids, cones, spheres and frustums **SIMULTANEOUS EQUATIONS** • Solving simultaneous equations using elimination • Solving simultaneous equations using substitution • Solving simultaneous equations graphically • Constructing and solving simultaneous equations **FORMULAE** Changing the subject of formulae	**TRIGONOMETRY** • sin, cos and tan • Finding unknown sides and angles in right-angled triangles • Exact trig values • Angles of elevation and depression • Bearings **CONSTRUCTIONS** • Constructions and loci **LINEAR GRAPHS** • Finding the equation of a straight line from its gradient and a point • Finding the equation of a straight line from two points on the line • Equations of parallel lines • Equations of parallel and perpendicular lines	**REAL LIFE GRAPHS** • Plotting linear real-life graphs • Using and interpreting linear real-life graphs • Finding equations of linear real-life graphs • Sketch graphs of water flows **SET NOTATION** • Venn diagrams with set notation • Using set notation **TREE DIAGRAMS** • Tree diagrams for independent events • Tree diagrams for dependent events **COMPOUND MEASURES** • Calculating with density • Calculating with pressure	**RATIO** • Combining ratios • Calculating with ratios and algebra • Changing ratios **GRAPHS** • Plotting velocity-time graphs • Calculating acceleration from velocity-time graphs • Graphs of cubic functions • Graphs of reciprocal functions • Graphs of exponential functions **SEQUENCES** • Position-to-term rules for quadratic sequences • Position-to-term rules for geometric sequences • Special sequences	**HANDLING DATA** • Sampling and bias • Capture and recapture **PROPORTION** • Constructing direct proportion equations • Constructing inverse proportion equations • Graphs of direct and inverse proportion **TRANSFORMATIONS** • Combining transformations • Enlargement by a positive or negative scale factor • Combining transformations **ROUNDING** • Finding bounds for calculations **INDICES** • Estimating rules and powers • Indices of the form $\frac{1}{a}$ Indices of the form $\frac{a}{b}$	**RECURRING DECIMALS** • Graphs of direct and inverse proportion • Converting fractions to recurring decimals • Converting recurring decimals to fractions **BRACKETS** • Expanding triple brackets • Completing the square • Factorising quadratic expressions of the form $ax^2 + bx + c$ • Factorising to solve quadratic equations of the form $ax^2 + bx + c = 0$ **HANDLING DATA AND STATISTICAL DIAGRAMS** • Drawing box plots • Interpreting box plots • Comparing populations using box plots and cumulative frequency graphs

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
PE	**INVASION GAMES** **Netball:** Refinement of more demanding skills and rules of a full 7 v 7 game. Attacking principles Outwitting opposition Defending principles Working knowledge and application of more advanced netball rules. Full 7 v 7 games – with specialist positions. Set play team tactics / strategies Development of leadership & officiating.	**INVASION GAMES** **Football:** Refinement of advanced skills as a team and as an individual. Passing, control and turning Heading Shooting Attack / beating an opponent Defensive tactics Set plays Development of coaching & officiating	**HEALTH-RELATED FITNESS** Development of methods of training: Interval training Continuous training Boxercise Circuit training: generic and sports specific Designing and delivering fitness circuits and basic exercise sequences to peers. **NET & WALL GAMES** **Badminton:** Introduction of doubles play Shot selection Attack / defence Scoring for doubles Tactics for doubles play Umpiring	**OUTDOOR & ADVENTUROUS ACTIVITIES** Extension and refinement of more challenging problem-solving skills Development of more challenging team building skills Establishment of orienteering skills Application of leadership skills Netball interform competition.	**ATHLETICS** Refinement of advanced athletics skills, including running; jumping; and throwing. Running for distance Running for speed Running over barriers Relays Sprint starts Jumping for height Jumping for distance Push throw Howler throw	**STRIKING & FIELDING GAMES** Fielding fundamentals Batting – strategic placement of ball Bowling – accuracy and consistency in delivery Positional roles – working knowledge Tactical ideas and concepts Full 9 v 9 games, with umpires and scorers. Rounders interform competition.

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
QURAN	**RECITATION:** ***Al-Alaa to Al-Fajar1-5*** **TAJWEED** **INTRODUCTION TO Makhaarij(Pronunciation)** **Al-Jawf** **Al-Halaq** ه , ء , خ , غ, ع , ح	**RECITATION:** ***Al-Fajar16-30 to Al-Duha*** **TAJWEED** **Tongue Letters:** ن، ر، ل، ض، ك، ق , ج، ش، ي **Tongue letters** س، ص، ز، ت، د، ط , ث، ذ، ظ	**RECITATION:** ***Ash-Sharh to Bayyinah*** **TAJWEED** **Al-Shafataan** **Lips Letters:** م، ف، و، ب **Al-Khayshoum** **Introduction to Sifaat** **Hams/Jahr**	**RECITATION:** ***Al-Zalzalah to Al-ASR*** **TAJWEED** **Izlaaq/Ismaat** **Shiddah/tawassut/rikhawah** **Itbaaq/infitah** **Istilaa/istifaal**	**RECITATION:** ***aL-hUMAZAH TO aL-kAUTHER*** **TAJWEED** **<u>Introduction Siffaat-characteristics without opposites</u>** **Ghunnah** **Qalqalah** **Takreer** **Tafashi** **Istitaala** **Inhiraaf** **Safeer** **leen**	**RECITATION:** ***Al-Kafiroun to Al-Kauther*** **TAJWEED** ، **Revision**

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
RS	**Religion 1: Islam beliefs** The nature of God, The oneness of God, 6 articles of faith in Sunni Islam, The 5 roots of Usul ud Din in Shi'a Islam, Angels. Predestination and the day of judgement, Life after death, heaven and hell, Prophethood	**Islam Practices:** The 5 pillars and the 10 obligatory acts, Shahadah, Salah, Sawm, Zakah, hajj, festivals, imamate, jihad.	**Religion 2: Christianity** Develop religious understanding towards; The nature of God Oneness of God and Trinity, Genesis, incarnation, crucifixion, salvation, atonement	**Christianity practices:** Worship : Explore the different way of worshipping, liturgical and non-liturgical The Lords prayer and why this is important **Develop religious understanding towards different sacraments:** - Baptism (adult and infant baptism and how it is undertaken) - Holy communion (why this is important and how is it commemorate between denominations **Develop religious understanding towards the importance of Pilgrimage:** - Lourdes , Iona - Jerusalem **Develop religious understanding of festivals:** - Easter - Christmas How is each festival celebrated and what is the religious significance	The role of the Church Reconciliation, persecution, charities, mission and evangelism	Revision and going over gaps of knowledge of any of the studies topics

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
URDU	**SELF, FAMILY AND FRIENDS** Personal information Family Relationships Marriage Future Plans Discuss role models	**MY LIFE** Revision of Foods and Drinks Talking about different meals Describe daily routine Clothing Celebrations, Festivals and traditions	**LEASURE** Use key vocabulary and present tense to talk about free time activities. Giving and justifying opinion about different types of films and TV programmes Talk about different sports, reading, eating out and **shopping** learning new vocabulary. Use past and future tenses in this context. Use present continue tense to describe the picture.	**HOME** Revise vocabulary about the topic Different types of houses Describing your house Future plans	**TOWN AND LOCAL AREA** Describe your local area: type, size location, climate, places of interest, things to do there Getting around – asking for and giving directions Advantages and disadvantages of where you live	**LIFE AT SCHOOL** Describing your school Subjects and opinions Attitudes to school rules Attitudes to uniform Compare school systems in Pakistan and England

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SUBJECT	AUTUMN	SPRING	SUMMER
YEAR 10 BIOLOGY SEPARATES	**Half-term 1** B2 Cell division (8 lessons) Cell division Growth and differentiation Stem cells *Review pathogens and disease** *Growing bacteria in the lab and preventing bacterial growth ** *Making and using monoclonal antibodies** **Assessment -** Kerboodle tasks Cell cycle and stem cells questions B3 Organisation and the digestive system (7 lessons) Tissues and organs The human digestive system The chemistry of food Catalysts and enzymes Factors affecting enzyme action – required practical **Half-term 2 (4 lessons)** B3 Organisation and the digestive system continued How the digestive system works Making digestion efficient **Assessment – Kerboodle tasks** **Questions on digestion and enzymes** B4 Organising animals and plants (4 lessons) The blood and blood vessels The heart Helping the heart Breathing and gas exchange ➢ **WINTER EXAM – based on B2, B3 topics only**	**Half-term 3** (1 lesson) Review winter exam B4 Organising animals and plants continued (8 lessons) Tissues and organs in plants Transport systems in plants Evaporation and transpiration Factors affecting transpiration *More about plant disease ** *Plant disease responses** **Assessment : *Kerboodle tasks questions on the entire B4 topic*** B8 Photosynthesis (5 Lessons) Photosynthesis The rate of photosynthesis How plants use glucose **assessment – kerboodle tasks** **photosynthesis questions** **Half-term 4** B9 Respiration (7 Lessons) Aerobic respiration The response to exercise Anaerobic respiration Metabolism and the liver **Assessment Kerboodle tasks and questions on respiration.**	**Half-term 5** **Start paper 2** (6 Lessons) **B10 The nervous system (3 lessons)** The principles of homeostasis The structure of the nervous system Reflex actions **Assessment questions on the required practical** Revision paper 1 (3 lessons) – *recap required practicals.* Paper one revision and past paper practice **Half-term 6** **Summer exam – Paper 1 exam** B16 Adaptations, interdependence, and competition The importance of communities Organisms in their environment Distribution and abundance – REQUIRED PRACTICAL Competition in animals and plants Adaptation in animals and plants

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SUBJECT	AUTUMN	SPRING	SUMMER
YEAR 10 BIOLOGY COMBINED	**Half-term 1** B2 Cell division (5 lessons) Cell division Growth and differentiation Stem cells **Assessment** - Kerboodle tasks Cell cycle and stem cells questions B3 Organisation and the digestive system (8 lessons) Tissues and organs The human digestive system The chemistry of food Catalysts and enzymes Factors affecting enzyme action – required practical **Half-term 2** B3 Organisation and the digestive system continued How the digestive system works Making digestion efficient **Assessment – kerboodle tasks and Questions on digestion and enzymes** B4 Organising animals and plants (4 lessons The blood and blood vessels The heart Helping the heart Breathing and gas exchange **WINTER EXAM – based on B2, B3 topics only**	Half-term 3 B5 Non-communicable diseases Lifestyle, Health and diseases (4 lessons) 1. Cancer 2. Smoking and the risk of diseases 3. Diet exercise and disease 4. Alcohol and the risk of diseases B4 Organising plants continued (6 lessons) Tissues and organs in plants Transport systems in plants Evaporation and transpiration Factors affecting transpiration **Assessment** **Kerboodle tasks, questions on the entire B4 topic** B8 Photosynthesis (5 Lessons) Photosynthesis The rate of photosynthesis How plants use glucose **assessment – kerboodle tasks and photosynthesis questions** **Half-term 4** B9 Respiration 5 Lessons) Aerobic respiration The response to exercise Anaerobic respiration Metabolism and the liver **Assessment kerboodle tasks and questions on respiration** END OF PAPER ONE	**Half-term 5** **Start paper 2** **B10 The nervous system (4 lessons)** The principles of homeostasis The structure of the nervous system Reflex actions and required practical. Revise paper 1 topic from year 9 to prepare for summer exams: Cells, communicable diseases and preventing disease **Half-term 6** **Summer exam – Paper 1 exam** Review summer exam B15 Adaptations, interdependence, and competition – 6 lessons The importance of communities Organisms in their environment Distribution and abundance – REQUIRED PRACTICAL Competition in animals and plants Adaptation in animals and plants

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SUBJECT	AUTUMN	SPRING	SUMMER
CHEMISTRY SEPARATE	**Chemical Calculations** Percentage composition by mass Moles Conservation of mass Reacting masses Stoichiometry Percentage yield Atom economy Concentration Titration calculations Volumes of gases ***Assessment covering Chemical Calculations*** Kerboodle quiz/questions, end of topic test **Chemical Changes** The reactivity series Displacement reactions Extracting metals Salts from metals Salts from insoluble bases Making more salts ***Required Practical*** Neutralisation and the pH scale Strong and weak acids ***Assessment 6 mark questions and required practical*** **WINTER EXAM Structure and bonding, Chemical calculations,**	**Electrolysis** Introduction to electrolysis Changes at the electrodes The extraction of aluminium Electrolysis of aqueous solutions ***Required practical*** ***Assessment covering Electrolysis*** Kerboodle quiz/questions and 4-6 markers, end of topic test **Energy Changes** Exothermic and endothermic reactions ***Required Practical*** Using energy transfers from reactions Reaction profiles Bond energy calculations ***Assessment covering Energy Changes*** Kerboodle quiz/questions, calculations end of topic test	**Earth's atmosphere** History of the atmosphere Our evolving atmosphere Greenhouse Gases Global Climate Change Atmospheric pollutants **SUMMER EXAM- Topics C1 to C7 based upon work done in year 9 and 10** **Crude oil and fuel** Hydrocarbon alkanes and alkenes Fractional distillation Burning hydrocarbon fuels Cracking hydrocarbons **Assessment**- Exam questions and Kerboodle quiz/question, end of topic test

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SUBJECT	AUTUMN	SPRING	SUMMER
CHEMISTRY COMBINED	**Chemical Calculations (5)** Conservation of mass Reacting masses Stoichiometry Concentration ***Assessment covering Chemical Calculations*** Kerboodle quiz/questions, end of topic test **Chemical Changes (5)** The reactivity series Displacement reactions Extracting metals Salts from metals Salts from insoluble bases Making more salts ***Required Practical*** Neutralisation and the pH scale Strong and weak acids **WINTER EXAM Structure and bonding (y9/y10), Chemical calculations(y9/y10)**	**Electrolysis (7)** Introduction to electrolysis Changes at the electrodes The extraction of aluminium Electrolysis of aqueous solutions ***Required practical*** ***Assessment covering Electrolysis*** Kerboodle quiz/questions and 4-6 markers, end of topic test **Energy Changes (7)** Exothermic and endothermic reactions ***Required Practical*** Using energy transfers from reactions Reaction profiles Bond energy calculations ***Assessment covering Energy Changes*** Kerboodle quiz/questions, calculations end of topic test	**Earth's atmosphere** History of the atmosphere Our evolving atmosphere Greenhouse Gases Global Climate Change Atmospheric pollutants **SUMMER EXAM- Topics C1 to C7 based upon work done in year 9 and 10** **Crude oil and fuel** Hydrocarbon alkanes and alkenes Fractional distillation Burning hydrocarbon fuels Cracking hydrocarbons **Assessment**- Exam questions and Kerboodle quiz/question, end of topic test

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SUBJECT	AUTUMN	SPRING	SUMMER
PHYSICS SEPARATES	**P4 – Electrical Circuits (16 lessons)** L1 – Circuit Symbols L2 – Drawing Circuits L3 – Current and Charge L4 – Potential Difference L5 - Resistance L6 – Required Practical (How increasing the length of wire affects resistance) L7 – Current/Potential Difference Graphs L8 – Required Practical (Current/Potential Difference graphs for a lamp, resistor and diode) --- ***P4 Assessment*** ➢ Based on lessons 1 to 8 L9 – Revision L10 – Assessment **(Exam Questions)** L11 – Review Assessment --- L12 – Series Circuits L13 – Parallel Circuits L14 – Thermistors and LDR's L15 (SEPARATES) – Static Electricity L16 (SEPARATES) – Electric Fields --- **WINTER EXAM (Exam Questions)** ➢ Based on lessons 1 to 8 ➢ Based on lessons 12 to 14 ---	**Review Winter Exam (1 lesson)** --- **P5 – Mains Electricity (7 lessons)** L1 – Mains Electricity L2 – National Grid L3 – Electrical Power L4 – Energy Transfer in Appliances L5 – Multistep calculations --- **P5 Assessment** L6 - Assessment on L1 to L5 **(Exam Questions)** L7 – Review Assessment --- **P6 – Particle Model (13 lessons)** L1 – Density L2 – Density Required Practical L3 – States of Matter L4 – Changes of State L5 – Internal Energy L6 – Specific Latent Heat L7 – Specific Heat Capacity L8 – Multistep Calculations L9 – Gas Pressure L10 (SEPARATES) – Gas Pressure Calculations --- ***P6 Assessment*** L11 – Revision (based on lessons 1 to 10) L12 – Assessment **(Exam Questions)** L13 – Review Assessment --- **SUMMER EXAM (Exam Questions)** ➢ Paper One (Energy, Electricity, Particle Model and Radioactivity)	**Review Summer Exam (1 lesson)** --- **P12 – Waves (12 lessons)** L1 – Waves L2 – Wave Properties L3 – Wave Speed L4 – Required Practical (Ripple Tank) L5 – Required Practical (Measuring Wavespeed in a Solid) L6 (SEPARATES) – Reflection L7 – Refraction L8 (SEPARATES) – Required Practical (Reflection and Refraction) --- **P12 Assessment** ➢ Based on lessons 1 to 8 ➢ Open book assessment booklet --- L10 (SEPARATES) – Sound Waves L11 (SEPARATES) – Ultrasound L12 (SEPARATES) – Seismic Waves --- **P13/P14 – Electromagnetic Waves (8 lessons)** L1 – Electromagnetic Spectrum L2 – Uses of EM Waves L3 – Radio waves L4 (SEPARATES) – Infrared radiation L4 - Required Practical (Infrared Radiation) L5 (SEPARATES) – Visible Light and Colour L6 – UV, X-rays and Gamma Rays L7 (SEPARATES) – Blackbody Radiation L8 (SEPARATES) – Lenses **END OF YEAR 10**

YEAR 10 CURRICULUM MAP 2025-2026

MANCHESTER ISLAMIC GRAMMAR SCHOOL FOR GIRLS
FAITH • LEARNING • LIFE

SUBJECT	AUTUMN	SPRING	SUMMER
PHYSICS TRILOGY	**P4 – Electrical Circuits (14 lessons)** L1 – Circuit Symbols L2 – Drawing Circuits L3 – Current and Charge L4 – Potential Difference L5 - Resistance L6 – Required Practical (How increasing the length of wire affects resistance) L7 – Current/Potential Difference Graphs L8 – Required Practical (Current/Potential Difference graphs for a lamp, resistor and diode) --- ***P4 Assessment*** ➢ Based on lessons 1 to 8 L9 – Revision L10 – Assessment **(Exam Questions)** L11 – Review Assessment --- L12 – Series Circuits L13 – Parallel Circuits L14 – Thermistors and LDR's --- **WINTER EXAM (Exam Questions)** ➢ Based on lessons 1 to 8 ➢ Based on lessons 12 to 14	**Review Winter Exam (1 lesson)** --- **P5 – Mains Electricity (7 lessons)** L1 – Mains Electricity L2 – National Grid L3 – Electrical Power L4 – Energy Transfer in Appliances L5 – Multistep calculations --- **P5 Assessment** ➢ Based on lessons 1 to 5 L6 - Assessment **(Exam Questions)** L7 – Review Assessment --- **P6 – Particle Model (12 lessons)** L1 – Density L2 – Density Required Practical L3 – States of Matter L4 – Changes of State L5 – Internal Energy L6 – Specific Latent Heat L7 – Specific Heat Capacity L8 – Multistep Calculations L9 – Gas Pressure --- ***P6 Assessment*** ➢ Based on lessons 1 to 9 L10 – Revision L11 – Assessment **(Exam Questions)** L12 – Review Assessment	**SUMMER EXAM (Exam Questions)** ➢ Paper One (Energy, Electricity, Particle Model and Radioactivity) --- **Review Summer Exam (1 lesson)** --- **P11 – Waves (7 lessons)** L1 – Waves L2 – Wave Properties L3 – Wave Speed L4 – Required Practical (Ripple Tank) L5 – Required Practical (Measuring Wavespeed in a Solid) L6 – Refraction --- **P11 Assessment** ➢ Based on lessons 1 to 6 ➢ Open book assessment booklet --- **P12 – Electromagnetic Waves (5 lessons)** L1 – Electromagnetic Spectrum L2 – Uses of EM Waves L3 – Radio waves L4 - Required Practical (Infrared Radiation) L5 – UV, X-rays and Gamma Rays --- ***P12 Assessment*** ➢ Kerboodle online assignments --- **END OF YEAR 10**