YEAR 10 CURRICULUM MAP 2026 - 27

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 S	**COMPUTATIONAL THINKING** -Decomposition -Algorithms -Data Types and Variables -Input and Output -Flowcharts -String Manipulation -Selection -Boolean Logic -Repetition -Assessment _____ **DATA REPRESENTATION** -Binary -Unsigned Integers -Binary Arithmetic -Two's Complement -Assessment	**COMPUTATIONAL THINKING** -Arrays and Lists -For Loops -Procedures -Functions -Subprograms -Merge Sort -Assessment _____ **DATA REPRESENTATION** -Binary Shifts -Hexadecimal -ASCII -Assessment	**COMPUTERS** -Stored Program Concept -Von Neumann Architecture -Fetch-Decode-Execute Cycle -CPU Performance -Secondary Storage -Operating Systems -File Management -Process Management -Peripheral Management -User Management -Assessment	**COMPUTERS** -Utility Software -Robust Software -Assessment _____ **NETWORKS** -LANs and WANs -Network Speeds -Connectivity -Wired and Wireless Networks -Assessment	**NETWORKS** -Network Topologies -Embedded Systems -Internet of Things -Packet Switching -TCP/IP -Internet Protocols -Assessment _____ **DATA REPRESENTATION** -Bitmap Images -Sound Representation -Compression -Assessment	**ISSUES AND IMPACT** -Malware and Anti-Malware -Hackers -Social Engineering -Data-Level Protection -Environmental Impact -E-Waste -Intellectual Property -Personal Data -Privacy and Ownership -Data Protection Legislation -Artificial Intelligence -Machine Learning -Robotics -Assessment

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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
YEAR 10	**Theme 1: People and lifestyle – Unit 1: Identity and relationships with others** **KS3 revision** **Content** • To describe oneself and others, physical description, character, personality and values • To describe future plans, relationships and dreams • Family relationships • Relationships with friends • Sharing views on marriage and other partnerships **Grammar** • The present tense of regular -re verbs • Adjective agreements • The future tense of regular -re verbs • The use of ne…aucun(e) • The present tense of regular -ir verbs • Comparative adjectives • The present participle of regular verbs • Impersonal verbs **Phonics** • silent final -e and final consonants / -aille/-ail / -ill-/-ille / soft -g, hard -g and -gn **Skills** • Translation • Photo card description • Reading aloud • Phonics • General conversation • Role play • 90-word essay (3 bullet points) 150-word essay (2 bullet points)	**Theme 1: People and lifestyle – Unit 2: Healthy living and lifestyle** **Content** • To describe health problems • Compare present lifestyle and future intention • Give ways and reasons to keep healthy • Express opinions about addictions, alcohol and food choice **Grammar** • The near future tense • Two tenses together: present and future • Plural nouns • Avant de + infinitive • The perfect tense with regular verbs with avoir • Indirect object pronouns • Irregular present participles • Impersonal expressions **Skills** • Translation • Photo card description • Reading aloud • Phonics • General conversation • Role play • 90-word essay (3 bullet points) 150-word essay (2 bullet points)	**Theme 1: People and lifestyle – Unit 3: Education and work** **Content** • Describing a day in school • To express opinions about school life, rules and uniform • Describing school facilities and your dream school • To talk about issues at school • To talk about post-16 studies and future intentions **Grammar** • Nouns ending in -ation • Negative constructions • Superlative adjectives • The conditional of regular -er verbs **Phonics** • -tion **Skills** • Translation • Photo card description • Reading aloud • Phonics • General conversation • Role play • 90-word essay (3 bullet points) 150-word essay (2 bullet points)	**Theme 1: People and lifestyle – Unit 3: Education and work (continued)** **Content** • To talk about ideal job and personal ambitions • To talk about the personal qualities, skills and qualifications required for a job • To talk about work experience and how to use language skills **Grammar** • Il y a and il y aura • Indefinite adjectives • Être en train de and venir de + infinitive • Adverbs of quantity **Phonics** • c/ç – qu – th **Skills** • Translation • Photo card description • Reading aloud • Phonics • General conversation • Role play • 90-word essay (3 bullet points) 150-word essay (2 bullet points)	**Theme 2: Popular Culture – Unit 4: Free-time activities** **Content** • To describe and express opinions about leisure activities • To talk about cinema, TV, music and reading preferences • To express opinions about sports and their advantages/disadvantages • To refer to sporting events **Grammar** • The perfect tense with avoir: irregular past participles • Emphatic pronouns (moi, toi) • Reflexive verbs in the present tense (plural forms) • Reflexive pronouns in the correct position • The perfect tense with être • -en and -à with places • Modal verbs in the perfect tense • Agreement with preceding object pronouns **Phonics** • -u and -ou / -oi and -oy / -e and -eu / -er and -ez **Skills** • Translation • Photo card description • Reading aloud • Phonics • General conversation • Role play • 90-word essay (3 bullet points) 150-word essay (2 bullet points)	**Theme 2: Popular Culture – Unit 5: Customs, festivals and celebrations** **Content** • To describe and express opinions about family and friends' celebrations • To compare festivals in the UK and French-speaking countries • To learn about country traditions and customs • To talk about traditional food consumed on special occasions and celebrations **Grammar** • Direct object pronouns (me, te, le, vous, la) • The present tense with common irregular verbs • -y and -en • The imperfect tense • Two tenses together (past and near future) • Functions of definite and indefinite articles • The future tense of être, avoir, aller and faire • Relative clauses with que, qui, quand and où **Phonics** • -eur/-oeur / -r **Skills** • Translation • Photo card description • Reading aloud • Phonics • General conversation • Role play • 90-word essay (3 bullet points) 150-word essay (2 bullet points)

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
GEOGRAPHY	**UK Landscapes/ Coasts** Geological variations in the UK Physical and human processes create distinct UK landscapes Physical processes interact to shape the coastal landscape Coastal erosion and deposition Human activities and the affects Located example: Holderness Coast **End of topic Assessment**	**Rivers** Physical processes interact to shape the river landscape Features of river erosion and deposition Human activities and the affects Located example: The River Severn 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, USA and Typhoon Haiyan, the Philippines. The causes of drought Impact and response of drought Located examples: California and Namibia	**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 **FIELDWORK** Physical fieldwork investigating change in coastal areas. Methods of collecting and presenting data Conclusion and evaluation

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SUBJECT	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
MATHS	**RATIO** • Use equivalent ratios to find missing and total amounts • Share quantities in a given ratio • Combine double ratios • Form equations from changing ratios • Solve mixed fraction, percentage and ratio problems **PERCENTAGES** • Solve mixed fraction, percentage and ratio problems • Simple and compound interest **TRANSFORMATIONS** • Translate shapes using column vectors • Reflection and rotation of shapes	**STATISTICS** • Draw and interpret pie charts and scatter graphs • Use two-way tables to solve problems • Find averages and range from lists and grouped and ungrouped frequency tables • Compare data using (back-to-back)stem-and-leaf diagrams • Use frequency polygons and identify misleading graphs • Draw and interpret cumulative frequency graphs and box plots • Draw and interpret histograms using frequency density • Use random, stratified and	**PROBABILITY** • Find probability of mutually exclusive and independent events • Use tree diagrams for repeated and conditional probability • Use Venn diagrams and set notation • Use relative frequency to make predictions **AREA, PERIMETER AND VOLUME** • Find area and perimeter of common and compound shapes • Calculate circle, sector and arc measures	**SIMILARITY AND CONGRUENCE** •Recap SSS, RHS, SAS and ASA to prove congruence (From Yr 9) • Solve similarity problems in 1D, 2D and 3D **GRAPHS** • Plot linear, quadratic, cubic, reciprocal and exponential graphs • Use y = mx + c and find equations of straight lines • Work with parallel and perpendicular lines • Interpret roots and turning points of quadratic graphs • Iteration problems	**EQUATIONS AND INEQUALITIES** • Solve simultaneous linear equations graphically and algebraically • Form simultaneous equations from real-life problems • Solve linear and quadratic simultaneous equations • Solve single and double linear inequalities • Show solutions on number lines and using set notation • Find regions satisfying linear inequalities • Solve quadratic and combined inequalities	**ANGLES AND TRIGONOMETRY** • Use angle facts in triangles, quadrilaterals and parallel lines • Find interior and exterior angles of polygons • Use Pythagoras and trigonometry ratios in 2D and 3D • Use exact values and angles of elevation and depression • Find triangle areas using trigonometry • Use the sine rule and cosine rule • Solve problems involving three-figure bearings

	• Enlarge shapes using positive, fractional and negative scale factors • Describe and combine transformations	capture-recapture sampling	• Find volume and surface area of prisms, cylinders and spheres • Find volume and surface area of cones, pyramids and frustums • Solve pressure and density problems	• Interpret distance-time and velocity-time graphs • Find speed, acceleration, rate of change and distance from 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	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 (7 weeks)	AUTUMN 2 (7 weeks)	SPRING 1 (7 weeks)	SPRING 2 (4 weeks)	SUMMER 1 (5 weeks)	SUMMER 2 (6 weeks)
QURAN	**RECITATION:** ***Al-Baqarah 62-69*** **TAJWEED** **Meem sakinah rules** **Idghaam shafawi** **Application and revision of Noon sakinah rules** **MEMORISATION AND TAFSEER:** **AL-Mulk(1-6)** Learning the surahs with their meaning in English, and the tafseer of the surahs to find out the reason of revelation	**RECITATION:** ***Al-Baqarah 70-80*** **TAJWEED** **Meem sakinah rules** **Izhaar shafawi** **Application and revision of Noon sakinah rules** **MEMORISATION AND TAFSEER:** **AL-Mulk(7-12)** Learning the surahs with their meaning in English, and the tafseer of the surahs to find out the reason of revelation	**RECITATION:** ***Al-Baqarah 81-88*** **TAJWEED** **Meem sakinah rules** **Ikhfa shafawi** **Application and revision of Noon sakinah rules** **MEMORISATION AND TAFSEER:** **AL-Mulk(13-19)** Learning the surahs with their meaning in English, and the tafseer of the surahs to find out the reason of revelation	**RECITATION:** ***Al-Baqarah 89-93*** **TAJWEED** **Application of meem sakinah rules** **Application and revision of Noon sakinah rules** **MEMORISATION AND TAFSEER:** **AL-Mulk(20-26)** Learning the surahs with their meaning in English, and the tafseer of the surahs to find out the reason of revelation	**RECITATION:** ***Al-Baqarah 94-101*** **TAJWEED** **Application of meem sakinah rules** **Application and revision of Noon sakinah rules** **MEMORISATION AND TAFSEER:** **AL-Mulk(27-30)** Learning the surahs with their meaning in English, and the tafseer of the surahs to find out the reason of revelation	**RECITATION:** ***Al-Baqarah 102-105*** ***Revision*** **TAJWEED** **Application of meem sakinah rules** **Application and revision of Noon sakinah rules** **MEMORISATION AND TAFSEER:** ***Muraajiah*** ***Revision of all surah mulk***

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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	**HOBBIES AND MEDIA** Learn new vocabulary about the topic Understand spoken and written accounts of how others spend their free time using **second and third person verbs for present tense** Talk about what you are going to do next weekend using **Future tense** Use **present continuous tense** to describe a picture رہی ہے/ رہا ہے/ رہے ہیں Favourite type of film, TV programme, music, etc. Reasons for preferences	**HOLIDAYS** Learn vocabulary about means of transport and give opinion. Telling and asking directions. Describe a past holiday using **past tense** Understand spoken and written accounts of how others spent the holidays Describe your dream holiday using **future tense.**	**CUSTOMS AND FESTIVALS** Learn vocabulary about the topic. Understand spoken and written accounts of different customs and festivals in target language communities. Describe a special occasion – which occasion was it, food and clothes, Customs and traditions, opinion **in past tense.** Use present continue tense to describe a picture.	**FOODS AND DRINKS** Revise vocabulary about foods, drinks, meals, adjectives and time phrases. Say what did you eat last night using **past tense** Talk about healthy and unhealthy habits using **Modal verb چاہیے** Eating out and ordering food Use present continue tense to describe picture رہی ہے/ رہا ہے/ رہے ہیں	**LOCAL AREA** Revise vocabulary about places. Describe your area - type, location, places of interest Say what you can do in your area using modal verb کر سکنا Problems affecting the environment What you are going to do in **the future** to protect the environment	**SEASONS AND WEATHER** Learn extended vocabulary about the topic. Compare weather using **simple past tense** ending with تھا/تھی/تھے Understanding weather forecast using future tense **TECHNOLOGY** Types of technology Using technology for work and leisure Pros and cons of new technology

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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 TRILOGY	**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 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	**Structure and Bonding (5)** *Recap- atoms and ions, ionic bonding* *Covalent bonding* *Giant covalent structures (diamond/graphite*) Bonding in metals Giant metallic structures ***Assessment covering Structure and Bonding*** Kerboodle quiz/questions and 6 markers, end of topic test **Chemical Calculations (5)** Conservation of mass Reacting masses Limiting reagants Mass to equations 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 **WINTER EXAM Structure and bonding (y9/y10), Chemical calculations(y9/y10)**	**Chemical Changes Cont. (6)** Making more salts ***Required Practical*** Neutralisation and the pH scale Strong and weak acids ***Assessment 6 mark questions and required practical*** **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 **SUMMER EXAM- Topics C1 to C7 based upon work done in year 9 and 10** Rate of reaction Collision theory and surface rea The effect of temperature The effect of concentration and pressure ***Required Practical*** The effect of catalysts Reversible reactions Energy and reversible reactions Dynamic equilibrium Altering conditions

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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 2026 - 27

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**