

Maharishi School Curriculum Overview – Year 10

| AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 |
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| ENGLISH | | | | | |
| <ul style="list-style-type: none"> Recap 19th century novel - finish analysis and practice exam style questions. Descriptive writing skills Writing to persuade, inform, argue Revision of terminology (literary and language) Develop skills of reading non-fiction. - content, language, structure, tone. Poetry - how to tackle unseen poetry | | <ul style="list-style-type: none"> Read and analyse modern text - An Inspector Calls Do endorsed S&L tasks (presentation on a controversial topic?) Descriptive writing Two or three poems from the anthology - Love and Relationships | | <ul style="list-style-type: none"> Shakespeare - explore characters; their relationships and the plot. annotate using correct terminology Essay style question/answer and peer marking. Persuasive/discursive writing. Poetry from the Anthology and how to tackle the unseen. | |
| MATHS | | | | | |
| Number Problems & Reasoning Place value & Estimating HCF & LCM Calculating with Powers Zero, Negative and Fractional Indices Powers of 10 and Standard Form Surds Algebraic expressions Expanding and factorising Equations Formulae Linear Sequences Non Linear Sequences More Expanding & Factorising | Statistical diagrams 1 Time Series Scatter Graphs Line of Best Fit Averages and Range Statistical diagrams 2 Fractions Ratios Ratio & Proportion Percentages Fractions, Decimals & Percentages | Angle properties of triangles and quadrilaterals Interior angles of polygons Exterior angles of polygons Pythagoras Theorem 1 Pythagoras Theorem 2 Trigonometry 1 Trigonometry 2 Linear graphs More linear graphs Line segments Graphing Rates of change Real life graphs (Homework) | Quadratic graphs Cubic and reciprocal More Graphs Perimeter and area (homework) Units & accuracy Prisms Circles Sectors of circles Cylinders and spheres Pyramids and cones 3D solids Reflections & Rotations Enlargement Transformations and combinations Bearings and Scale Drawings Constructions 1 Constructions 2 Loci | Solving quadratic equations 1 Solving quadratic equations 2 Solving simple simultaneous equations More simultaneous equations Solving linear and quadratic SE Combined events Mutually exclusive events Experimental Probability Independent events & Tree Diagrams Conditional Probability Venn Diagrams and Set Notation | Growth & decay Compound measures More compound measures Ratio & proportion Congruence Geometric proof and congruence Similarity More similarity Similarity in 3D Revision & End of Year Test |
| SCIENCE | | | | | |
| Physics <ul style="list-style-type: none"> Newton's Laws Forces and interactions. Free body diagrams Newton's First Law Newton's Second Law Momentum Work and power Stretching in springs Stretching materials and storing energy Gravitational field & potential energy Biology <ul style="list-style-type: none"> Photosynthesis Photosynthesis Photosynthesis experiments Factors affecting photosynthesis. Interaction of limiting factors. Diffusion Osmosis Active transport Mitosis | Biology <ul style="list-style-type: none"> Exchange & transport Circulatory System Heart & blood Plant transport systems Transpiration Stream Factors affecting transpiration Chemistry <ul style="list-style-type: none"> Formulae of elements & molecules Formulae of ionic compounds Conversion of mass Physics <ul style="list-style-type: none"> Electrostatics Electric currents Circuits & potential difference Series & parallel circuits Resistance Graphs of potential difference & current LDR's & thermistors | Chemistry <ul style="list-style-type: none"> Chemical equations Half equations & ionic equations The Mole Exothermic & endothermic reactions Reaction Profiles Calculating Energy changes Biology <ul style="list-style-type: none"> Hormones Negative Feedback The menstrual cycle Nervous system Reflexes The eye The brain Nervous system damage Controlling reproduction Using hormones to treat infertility Plant hormones | | | |

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| <ul style="list-style-type: none"> • Cell differentiation • Stem cells <p>Chemistry</p> <ul style="list-style-type: none"> • Bonding. • Metals and Non-metals • Electronic structures. • Forming ions. • Ionic compounds. • Simple molecules • Giant covalent structures. • Polymer molecules. • Structure of metals • Developing the periodic table. | <ul style="list-style-type: none"> • Net resistance & circuit calculations | <p>Physics</p> <ul style="list-style-type: none"> • Magnets & magnetic fields • Currents & fields • Current & forces • Motors • Electromagnetic induction • Generators • Transformers • Microphones & loudspeakers | | | |
| HISTORY | | | | | |
| <ul style="list-style-type: none"> • The Normans - Conquest and Control: • Background to the succession crisis in 1066 • Why did William win the Battle of Hastings? • William establishes control • Feudalism and Government • Economic and social changes and their consequences • The Norman Church and Monasticism | <p>A study in depth for compulsory question: Durham Cathedral Educational visit to Chester Cathedral</p> <p>Conflict and Tension 1918 - 1939</p> <ul style="list-style-type: none"> • Peacemaking • The Armistice • Treaty of Versailles and its impact | <ul style="list-style-type: none"> • The League of Nations and international peace • Diplomacy outside the League • The collapse of the League • The origins and outbreak of the Second World War • The development of tension • The escalation of tension • The outbreak of war | | | |
| GEOGRAPHY | | | | | |
| <p>UNIT 1 - Section C</p> <p>UK landscapes Rivers Physical Fieldwork on rivers</p> | <p>Complete fieldwork</p> <p>Unit 2 - Section A</p> <p>Urban World - Rio</p> | <p>UNIT 1 – Section C</p> <p>Coastal Landscapes</p> | <p>Unit 2 - Section A</p> <p>Urban Change in the UK</p> <p>Human Fieldwork</p> | <p>Finish off Fieldwork</p> <p>Unit 2 – Section A</p> <p>Sustainable Urban Development</p> | <p>Revision of Year 10 Work</p> |
| ART | | | | | |
| <p>Print-making based on patterns and motifs of traditional cultures around the world</p> | <p>Identity: photography, portrait, changing identity, experimentation and exploration</p> | <p>Approaching abstract</p> | | | |
| FRENCH-OPTIONAL GSCE | | | | | |
| <p>Key Stage 3 revision</p> <p>Nouns Articles Numbers Dates and times My family and me Using avoir (to have) and être (to be) Possessive adjectives (my, your, his, her) Family and friends Reflexive verbs Adjective agreement Comparatives and superlatives Personal relationships Position of adjectives Using qui and que Future relationships The immediate future and the future tense Direct and indirect object pronouns</p> | <p>Communicating online The present tense of regular -er verbs Using avec and sans Social media The present tense of common irregular verbs Using grâce à Unit 2.2 G Advantages and disadvantages of mobile technology 'It' and 'that': ce, c', ça Interrogative adjectives Technology in everyday life Aller, faire and other common irregular verbs The pronouns moi, toi, lui and elle</p> | <p>TV, music and films Revision of the present tense of regular verbs Question words Free time activities in the past The perfect tense of regular verbs The perfect tense with être Food shopping and mealtimes Quantities Adverbs of frequency Eating out Verb + infinitive The pronoun en Sports and opinions Using subordinating conjunctions Jouer à and faire de Developing sentences using quand, lorsque and si Opinion verbs</p> | <p>Celebrations Revision of the perfect tense with être The rules of agreement in the perfect tense Celebrations in the past Reflexive verbs in the perfect tense Using en, au / aux / à + countries and towns Festivals in France Using common expressions in the imperfect tense Indefinite articles International festivals The imperfect tense of common verbs Deciding between the perfect and imperfect tenses</p> | <p>Furniture and household chores Revision of the position and agreement of adjectives Plurals of nouns Describing different houses Negative phrases followed by de Partitive articles Compass points and regions of France Habiter and vivre C'est and il y a Twin towns Demonstrative adjectives Prepositions</p> | <p>Charity organisations Vouloir + infinitive Indefinite pronouns Voluntary work The conditional of vouloir and aimer En + present participle Eating habits Devoir and pouvoir + infinitive Il faut + infinitive Comparing old and new health habits Imperfect tense of être, avoir and faire Expressions of quantity Recognising the pluperfect tense</p> |
| SPANISH | | | | | |

