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 Language Paper 1: Imaginative Writing Communicate clearly, effectively, and imaginatively, selecting and adapting tone, style and register for different forms, purposes and audiences. Organise information and ideas, using structural and grammatical features to support coherence and cohesion of texts. Use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation. Literature 			
 Students should be able to: maintain a critical style and develop an informed personal response. Use textual references, including quotations, to support and illustrate interpretations. Analyse the language, form and structure used by a writer to create meanings and effects, using relevant subject terminology where appropriate. Show understanding of the relationships between texts and the contexts in which they were written. 			
Foundation Mathematics Topics Algebra: Plot Horizontal and Vertical Lines e.g. y=5 and x=3 Plot Linear Graphs Find the Midpoint of a Line Segment Find the Gradient and y Intercept of a Line Segment from a Graph Plot 2 Linear Equations and Find Interception Proportion & Probability: Direct Proportion (no Equation) Solving Problems with Similarity & Defining the word Congruent Using a SF to Find a Missing Length To understand and Use the Probability Scale To know Probability sums to 1 and solve simple problems Sample Space Diagrams - Complete and Find Probabilities Probability/Frequency Trees Problems Solve Probability Problems Using Venn Diagrams Solve Probability Problems incl. Relative Frequency	Higher Mathematics Topics Algebra: Solve Simultaneous Equations by Elimina Plotting Graphs (including Quad, Cubic, Exponential and Reciprocal) Find the Midpoint, Gradient and y Interce Line Segment Find the equation of a Line from a Graph Points Find Parallel and Perpendicular Gradients Equations Rearrange Equations/Expression Simplify Algebraic Fractions Add and Subtract with Algebraic Fraction Multiply and Divide with Algebraic Fraction Graph Inequalities and Expression Graph Inequalities and Shade Regions Number: Surds – multiply, divide, simplify, add, sul	tion ept of a and 2 and s and s ons in Centre btract,	
 Biology B8 Photosynthesis Recall the word and symbol equation for ph Describe photosynthesis as an endothermic Explain the effects of light intensity, carbon chlorophyll on the rate of photosynthesis. Interpret graphs showing how these variable Investigate the effect of light intensity on ra Required practical: Investigating the effect of B9 Respiration Recall the word and symbol equations for ad Describe respiration as an exothermic reaction Describe the differences between aerobic at Describe how the body reacts to an increase Define the term metabolism and give example 	otosynthesis reaction. dioxide concentration, temperature, and a es affect the rate of photosynthesis. te of photosynthesis in an aquatic plant. of light intensity on the rate of photosynthe erobic and anaerobic respiration. ion and explain the importance of energy in nd anaerobic respiration. ed demand for energy. oles of metabolic reactions	mount of esis n cells.	
	 Language Paper 1: Imaginative Writing Communicate clearly, effectively, and imaging register for different forms, purposes and an experimentation and ideas, using struct and cohesion of texts. Use a range of vocabulary and sentence strusspelling and punctuation. Literature We continue to study our core exam text: William S Students should be able to: maintain a critic Use textual references, including quotations Analyse the language, form and structure us relevant subject terminology where approp Show understanding of the relationships be written. Foundation Mathematics Topics Algebra: Plot Horizontal and Vertical Lines e.g. y=5 and x=3 Plot Linear Graphs Find the Midpoint of a Line Segment Find the Gradient and y Intercept of a Line Segment from a Graph Plot 2 Linear Equations and Find Interception Proportion & Probability: Direct Proportion (no Equation) Solving Problems with Similarity & Defining the word Congruent Using a SF to Find a Missing Length To understand and Use the Probability Scale To know Probability sums to 1 and solve simple problems Sample Space Diagrams - Complete and Find Probability/Frequency Trees Problems Solve Probability Problems Using Venn Diagrams Solve Probability Problems Using Venn Diagrams<th> Communicate clearly, effectively, and imaginatively, selecting and adapting tone, style register for different forms, purposes and audiences. Organise information and ideas, using structural and grammatical features to support and cobesion of texts. Use a range of vocabulary and sentence structures for clarity, purpose and effect, with spelling and punctuation. Literature We continue to study our core exam text: William Shakespeare's Macbeth Students should be able to: maintain a critical style and develop an informed personal Use textual references, including quotations, to support and illustrate interpretations. Analyse the language, form and structure used by a writer to create meanings and efferences at subject terminology where appropriate. Show understanding of the relationships between texts and the contexts in which they written. Foundation Mathematics Topics Algebra: Plot Horizontal and Vertical Lines e.g. y=5 and x=3 Plot times Graphs Plot Linear Graphs Plot Equations and Find Interception Proportion & A Probability: Direct Proportion (no Equation) Solving Problems with Similarity & Defining the organized and Use the Probability Algebra: Direct Proportion (no Equation) Solving Probability: Direct Proportion (no Equation) Solving Probability sums to 1 and solve simple problems Solving Probability Problems Using Venn Diagrams Solve Probability Problems Using Venn Diagrams <</th>	 Communicate clearly, effectively, and imaginatively, selecting and adapting tone, style register for different forms, purposes and audiences. Organise information and ideas, using structural and grammatical features to support and cobesion of texts. Use a range of vocabulary and sentence structures for clarity, purpose and effect, with spelling and punctuation. Literature We continue to study our core exam text: William Shakespeare's Macbeth Students should be able to: maintain a critical style and develop an informed personal Use textual references, including quotations, to support and illustrate interpretations. Analyse the language, form and structure used by a writer to create meanings and efferences at subject terminology where appropriate. Show understanding of the relationships between texts and the contexts in which they written. Foundation Mathematics Topics Algebra: Plot Horizontal and Vertical Lines e.g. y=5 and x=3 Plot times Graphs Plot Linear Graphs Plot Equations and Find Interception Proportion & A Probability: Direct Proportion (no Equation) Solving Problems with Similarity & Defining the organized and Use the Probability Algebra: Direct Proportion (no Equation) Solving Probability: Direct Proportion (no Equation) Solving Probability sums to 1 and solve simple problems Solving Probability Problems Using Venn Diagrams Solve Probability Problems Using Venn Diagrams <	

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Chemistry

C5 Chemical changes

- Describe how the reactivity of metals can be compared.
- Use word and symbol equations to explain how displacement reactions can be used to compare the reactivity of metals.
- Describe and explain the steps used in methods to produce pure, dry soluble salt crystals.
- Use word and balanced symbol equations to represent chemical reactions from general equations.
- Use the pH scale to compare solutions and explain how neutralisation occurs.
- **Required practical:** Producing soluble salts by neutralisation.

C6 Electrolysis

- Define the terms electrolysis, electrolyte, ion, oxidation, and reduction.
- Describe the process of electrolysis of molten ionic compounds.
- Make predictions about the products of electrolysis.
- Explain the products of the electrolysis of aluminium oxide.
- Explain the products of the electrolysis of aqueous sodium hydroxide
- Required practical: Electrolysis of solutions

	 Physics P5 Electricity in the home Describe the difference between Alternating Current (A.C) and Direct Current (D.C) electrical sources. Explain the components in a 3 - pin plug. Explain how energy is conserved in terms of current and Potential Difference (P.D.) during energy transfers by an electric current. Use the equations <i>E</i> = <i>P</i> × <i>t</i>, <i>P</i> = <i>V</i> × <i>I</i> and <i>P</i> = <i>I</i>² × <i>R</i> and <i>Q</i> = <i>I</i> × <i>t</i>. Calculate and compare the electrical efficiency of an electrical device and the cost of using it.
Core Physical Education	 Shared Goals Learners will understand the importance of a vision or goal and how to achieve that alongside others. Communication Learners will understand a range of communication techniques and to develop the ability to communicate effectively within a team.
ARRK Lessons Core Values Aspirational Resilient Respectful Kind	Relationships Learners should know: The concepts of, and laws relating to, sexual consent, sexual exploitation, abuse, grooming, coercion, harassment, rape, domestic abuse, forced marriage, honour-based violence and FGM, and how these can affect current and future relationships.









Option Subjects Overview

History	 The challenges of Natural Hazards: Tectonic and Weather. The risks posed by natural hazards. The physical processes involved in creating natural hazards. The effects of and responses to natural hazards, comparisons between LIC, NEE and HIC. Global atmospheric circulation. Tropical storms, their impact, and effects on people. <i>Case study – Typhoon Haiyan</i> <i>Case study – Nepal Earthquake 2015</i> Extreme weather in the UK and the risks of Climate Change and its impacts. Students will know: How natural hazards are created. How we can manage the risks of living with natural hazards. How different countries prepare for and respond to natural hazards.
Geography	 Urban Challenges How urban planning is improving the quality of life for the urban poor? Urban change in UK cities. A case study of a major city in a LIC or NEE - Lagos, Nigeria case study of a major city in the UK – London. Learners will know: Location and importance of each city. The causes of growth in each city. How urban growth has created opportunities and challenges (social and economic)?
Philosophy and Ethics	 Paper 1 Section 3: Living a Christian Life Pilgrimage – What is the purpose of pilgrimages in Christianity? The future of the church at a local, national and international level.

Humanities

French	 10.5 Free Time and Leisure Discussion of free time activities including sports, music and TV, using the present tense conjugation of regular and irregular verbs. Use of the perfect and imperfect past tense to discuss what you did when you were younger and last weekend. Use of adverbs of frequency to explain how often we complete certain activities. 10.6 Future Plans after School Use of the near and simple future to discuss future study and job plans, with a focus on irregular verbs. Expressing future opinions with the use of negative structures. retrieval of the conditional tense to discuss future desires.
Spanish	 10.5 Free Time and Leisure Discussion of free time activities including sports, music and TV, using the present tense conjugation of regular and irregular verbs. Use of the perfect and imperfect past tense to discuss what you did when you were younger and last weekend. Use of adverbs of frequency to explain how often we complete certain activities. 10.6 Future Plans after School Use of the near and simple future to discuss future study and job plans, with a focus on irregular verbs. Expressing future opinions with the use of negative structures. retrieval of the conditional tense to discuss future desires.









3D Product Design	 Experimentation with materials and techniques Learners build on their accurate and controlled skills by exploring more expressive and experimental types of mark making. Learners start to explore techniques that provide opportunities to extend the personal, emotional and meaningful impact of their ideas linking to their chosen theme.
Engineering	 R040 - Product analysis and research This unit will enable students to perform effective product analysis. They will research existing solutions and assess the development of engineered products. Topics/skills covered in the R040 unit include: Development of dexterous skills. Practical experience of product assembly and disassembly to appreciate manufacturing processes, design features and materials used. Development of creativity and critical analysis through an understanding of the principles behind good design. What makes a good product sell by analysing existing solutions. Commercial production methods, including one-off, batch, mass, and continuous production The importance of conformity to legislation. Quality and safety standards.
Textiles	ExperimentationExperimentation in the following specialisms:•Mark Making•Fabric Construction•Dyeing and Printing••Embellishment•••Pattern Making•••Pattern Making••PresentationStudents build on their accurate and controlled skills by exploring more expressive and experimentalways of working with textile media. They will develop new practical skills by emulating the style of theirchosen artist/designerStudents start to explore techniques that provide opportunities to extend the personal, emotional, andmeaningful impact of their ideas linking to their chosen theme where appropriate. An example of thiscould be basing developmental samples on their own photographs and drawings. Throughout Y10students will learn about new textile artists and designers and develop their knowledge of the meaningbehind many works of textile art and design.
Food Technology	 Food Science This unit will enable learners to develop an understanding of the different scientific processes that are involved in food production and preparation. Topics and Skills Covered: Why food is cooked and the different methods of heat transfer. Learners will learn a range of preparation and cooking methods, alongside the importance of time, to achieve the desired characteristics in practicals. Learners will study the functional and chemical properties of food, including denaturation, coagulation, gluten formation, foam formation, gelatinisation, dextrinization, caramelisation. Learners will understand the use and importance of chemical and mechanical raising agents.
Art	 Experimentation with materials and techniques Learners build on their accurate and controlled skills by exploring more expressive and experimental types of mark making. Learners start to explore techniques that provide opportunities to extend the personal, emotional and meaningful impact of their ideas linking to their chosen theme.









Physical Education	 1.2a Components of fitnes: Components of fitness tes 1.2b Principles of Training Principles of training (FITT 1.1e Effects of exercise on Short / Long term effects of 	ss ting booklets (scores for co & SPOR) and optimising T the body of exercise on the body	oursework) raining (training methods,	warmups & cool downs)
Health and Social Care	Health conditions Learners will look at comm Arthritis Cardiovascular conditions Coronary heart disease Cerebral vascular accident Learners will look at comm Primary Care GP surgeries Dental care Out-of-hours services Telephone services Accident and emergency departments	non lifelong factors that af Diabetes (type 2) Dementia Obesity non lifelong health Disease Secondary Care Specialist medical care that includes: Rheumatology Respiratory medicine Cardiology Endocrinology	fect our health and care ne Asthma Chronic obstructive pulmonary disease COPD Es Health services available Tertiary Care Specialist medical care that includes: Oncology Transplant services Physiotherapy Speech and language therapy Occupational therapy	Sensory impairments Physical impairments Learning disability.

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Business	 Human resources What are the different methods of recruitment that businesses use? What are the various stages of recruitment? What the different types of employment contracts that employers can issue to employees?
	What are the various ways of developing staff and monitoring their work activities?
Information Technology	How can we create a user interface to meet a given audience's needs? Learning Aim B: Creating a project plan, defining the project requirements, project risk and constraints, project timescales, storyboard and sketches, hardware, software and testing strategies.
	Learning Aim C: Develop a functional user interface, reviewing and refining a user interface







