MAYFIELD PREPARATORY SCHOOL
SUMMER TERM 2022 PROGRAMMES OF STUDY FOR UPPER II

MATHEMATICS	**Measurement- Area, Perimeter & Volume** • Shapes – same area • Area and perimeter • Area of a triangle • Area of parallelogram • What is volume? • Volume – counting cubes • Volume of a cuboid • **Number- Ratio** • Using ratio language • Ratio and fractions • Introducing the ratio symbol • Calculating ratio • Using scale factors • Calculating scale factors • Ratio and proportion problems • **Statistics** • Read and interpret line graphs • Draw line graphs • Use line graphs to solve problems • Circles • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • The mean • **Geometry- Properties of shape** • Measure with a protractor • Introduce angles • Calculate angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle – special cases • Angles in a triangle – missing angles • Angles in special quadrilaterals • Angles in regular polygons • Draw shapes accurately • Draw nets of 3-D shapes • **Probability** • Understand basic probability • Record events using language of likelihood • Record chance out of 1 • Record probability as a fraction • Solve problems involving probability • **Problem Solving and Exam Practice** • Use examples to prove your answer • Solve problems involving all four operations and fraction • Look at previous entrance exam papers and discuss how best to answer them

MAYFIELD PREPARATORY SCHOOL
SUMMER TERM 2022 PROGRAMMES OF STUDY FOR UPPER II

ENGLISH	Class Reader: The Cadwaladar Quest. Reading Comprehension: Making inferences, forming opinions, vocabulary work, considering an author's intentions. Working through different styles of comprehensions such as timed multiple choice questions and longer detailed 3 mark questions which require point, evidence, explain style answers. Writing: Short timed writing tasks in different genres – working towards entrance exams, which reflect the different writers skills taught across the key stage such as descriptive passages that uses appropriate and ambitious vocabulary for setting and mood, uses of different sentence types to create pace and interest for the reader and a range of punctuation. Grammar: Commas, cohesion, clauses, homophones, adverbs, modal verbs, conjunctions, prepositions, hyphens and dashes, root words. Handwriting: Ensuring a clear, joined handwriting style is present in all written work across the curriculum. Letters should be positioned correctly on the line and the correct size and shape in relation to the size of the line and each other.
SCIENCE	<u>Materials and their Properties (Continued)</u> Investigate which electrical conductors make a bulb shine brightest Investigate which materials will dissolve Use different processes to separate mixtures of materials Identify and explain irreversible chemical changes <u>Animals including Humans</u> Describe the stages of human development Explain how babies grow and develop Describe and explain the main changes that occur during puberty Identify the changes that take place in old age. Report findings from enquiries Record complex data using graphs and models and identify the relationship between variables
HUMANITIES:	Geography: Sustainability Project (Mayfield Environmental Review) History: Why did Lady Jane Grey only rule for 9 days?
RELIGIOUS EDUCATION	Aiming High: Children will focus on achievements, aspirations, and opportunities. They will learn about their own personal, preferred learning styles and consider strategies to overcome potential barriers to success.
PERSONAL & SOCIAL DEVELOPMENT	**Aiming High:** Children will focus on achievements, aspirations, and opportunities. They will learn about their own personal, preferred learning styles and consider strategies that could aid them to overcome potential barriers to success.
PHYSICAL EDUCATION	Short Tennis – ground strokes, volley, scoring. Participate in class tournament. Athletics – 80m hurdles, throwing, 600m, standing long jump. Prepare for Sports Day Rounders: core skills, adapted and full games of rounders. Cricket: core skills, adapted and full games of cricket. Continue post lockdown fitness work ..combine with Athletics disciplines.
ART & DESIGN	To design and make a felt keyring. Making artwork from observations.
INFORMATION & COMMUNICATION TECHNOLOGY	Linked to Geography – Sustainability Project.
MUSIC	Contribution to Jubilee Celebrations study music from 1960's

MAYFIELD PREPARATORY SCHOOL
SUMMER TERM 2022 PROGRAMMES OF STUDY FOR UPPER II

	Introduce Looking at the style with its rhythms in Samba music and music of other festivals Continue to learn and review songs to be sung in Assemblies
CLASSICAL STUDIES	Classical Studies - Roman Empire Latin - 1st conjugation verbs - 1st declension nouns
STUDY SKILLS	Developing knowledge and techniques for exams. **Verbal reasoning skills:** **PATTERNS AND FUNCTIONS** **Codes** • Number ciphers; • Symbol ciphers; **Sequences** • Number sequences; • Letter sequences; • Ordering words; **LOGIC** • Statement logic; • Deductions; • Number logic; • Letter logic; **NUMBER** • Find the calculation; **Algebra** • Balance the equation; • Substitution **Non-verbal reasoning skills**: • Match to a pair • Pairing shapes • Sequences • Matrices • Odd shaped matrices • Find a code • Parts within a shape • Shape logic • Rotations and reflections Individual revision based on analysis of test papers Test practice involving all question types