

MAYFIELD PREPARATORY SCHOOL
SUMMER TERM 2024 PROGRAMMES OF STUDY FOR UPPER II

MATHEMATICS

Fractions, decimals and percentages

- Decimal and fraction equivalents
- Fractions as division
- Understand percentages
- Fractions to percentages
- Fraction, decimal, percentage equivalence
- Order fractions, decimals and percentages
- Percentage of an amount
- Percentages- missing values

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

Statistics

- Read and interpret line graphs
- Draw line graphs
- Use line graphs to solve problems
- Read and interpret pie charts
- Pie charts with percentages
- Draw pie charts
- The mean

Geometry- Properties of shape

- Measure and classify angles
- Calculate angles
- Vertically opposite angles
- Angles in a triangle
- Angles in quadrilaterals
- Angles in polygons
- Circles
- Draw shapes accurately
- Nets of 3D 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

Speed, time & distance

- Understand the link between each
- Solve problems involving time, speed and distance

Profit and loss

- Understand the meaning of profit and loss
- Solve problems involving profit and loss

Radius and diameter

- Know the parts of a circle
- Calculate the radius or diameter when given the other

Misleading graphs

- Understand how and why graphs might be misleading

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ENGLISH	<p><u>Class Reader: The Cadwaladar Quest.</u></p> <p>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.</p> <p>Writing: Short timed writing tasks in different genres – working towards entrance exam writing tasks, which reflect the different writing 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.</p> <p>Grammar: Commas, cohesion, clauses, homophones, adverbs, modal verbs, conjunctions, prepositions, hyphens and dashes, root words.</p> <p>Handwriting: Ensuring a clear, joined Kinetic Letters 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 in a clear and fluent joined style.</p>
SCIENCE	<p><u>Animals including Humans</u></p> <p>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</p>
HUMANITIES:	<p>Geography: Sustainability Project (Mayfield Environmental Review)</p> <p>History Investigation Project: Why did Lady Jane Grey only rule for 9 days? OR Did Richard III murder his nephews?</p>
RELIGIOUS EDUCATION	<p>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.</p>
PERSONAL & SOCIAL DEVELOPMENT	<p>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.</p>
PHYSICAL EDUCATION	<p>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.</p>
ART & DESIGN	<p>To design and make a felt keyring, using sewing skills. To learn about the art movement, surrealism and the artwork of Salvador Dali.</p>
COMPUTING	<p>Research skills and safer internet conduct linked to Geography – Sustainability Project and History Investigation Project.</p>
MUSIC	<p>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</p>

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	Continue having short sessions on the recorder
CLASSICAL STUDIES	<p>Introduction to the Ancient Greek language and culture:</p> <ul style="list-style-type: none"> • To learn the Ancient Greek alphabet • To learn about Ancient Greek theatre, poetry, philosophy and the language involved • To learn about Ancient Greek myths and legends, Gods and Goddesses, city states and their wars
STUDY SKILLS	<p>Developing knowledge and techniques for exams.</p> <p><u>Verbal reasoning skills:</u></p> <p>PATTERNS AND FUNCTIONS</p> <p>Codes</p> <ul style="list-style-type: none"> • Number ciphers; • Symbol ciphers; <p>Sequences</p> <ul style="list-style-type: none"> • Number sequences; • Letter sequences; • Ordering words; <p>Logic</p> <ul style="list-style-type: none"> • Statement logic; • Deductions; • Number logic; • Letter logic; <p>Number</p> <ul style="list-style-type: none"> • Find the calculation; <p>Algebra</p> <ul style="list-style-type: none"> • Balance the equation; • Substitution <p><u>Non-verbal reasoning skills:</u></p> <ul style="list-style-type: none"> • Revision of all areas with an Atom focus on the topics that most find difficult. <p>Individual revision based on analysis of test papers</p> <p>Test practice involving all question types</p>