

MAYFIELD PREPARATORY SCHOOL
SUMMER TERM PROGRAMMES OF STUDY FOR UPPER II

MATHEMATICS	<ol style="list-style-type: none">1. Probability<ul style="list-style-type: none">• Record probability of events using modal verbs• Record probability of events using decimals and fractions• Investigate situations involving probability and explain the results2. Data Handling<ul style="list-style-type: none">• Use sorting diagrams effectively- Venn and Carroll and 2-way tables• Solve problems involving numbers and shape3. Ratio and Proportion<ul style="list-style-type: none">• Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts• Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison• Solve problems involving similar shapes where the scale factor is known or can be found• Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples4. Algebra<ul style="list-style-type: none">• Use simple formulae• Generate and describe linear number sequences• Express missing number problems algebraically• Find pairs of numbers that satisfy an equation with two unknowns• Enumerate possibilities of combinations of two variables5. Money<ul style="list-style-type: none">• Solve problems involving money• Find totals and change to £1000• Considering the coins and notes needed to pay exactly with money6. Calculating<ul style="list-style-type: none">• Solve problems involving sometimes, always, never true• Solve multi-step problems• Explain the reasoning behind your answer• Use examples to prove your answer• Solve problems involving 'Finding all possibilities'7. Fractions Decimals and Percentages<ul style="list-style-type: none">• Solve multi-step problems• Explain the reasoning behind your answer• Use examples to prove your answer• Solve problems involving 'Finding all possibilities'8. Area and Perimeter<ul style="list-style-type: none">• Calculating the area of given shapes• Calculating the perimeter of given shapes• Calculating the area of extended shapes when a measurement is missing• Calculating the perimeter of a shape when a measurement is missing• Solve word problems involving area and perimeter
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	<p>9. Problem Solving</p> <ul style="list-style-type: none"> • Solve multi-step problems • Explain the reasoning behind your answer <p>10. Problem Solving and Exam Practise</p> <ul style="list-style-type: none"> • 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
ENGLISH	<p>Reading Comprehension: Making inferences, forming opinions, vocabulary work, considering an author's intentions.</p> <p>Writing: Non-fiction - formal writing. Creative writing.</p> <p>Grammar: Commas, cohesion, clauses, homophones, adverbs, modal verbs, conjunctions, prepositions, hyphens and dashes, root words.</p> <p>Class Reader: Holes</p>
SCIENCE	<p>To continue with the Science Topic, Living Things and their Habitats. Identify different mammals, amphibians and insects and how their life cycles are similar and different.</p> <p><u>Famous scientists</u>- Children will study some famous scientists such as Issac Newton, Mary Anning, Charles Darwin, Alfred Russel Wallace.</p>
HUMANITIES	<p>Investigating the BIG QUESTION: 'Why was winning the Battle of Britain in 1940 so important?'</p>
RELIGIOUS EDUCATION/ PERSONAL AND SOCIAL DEVELOPMENT	<p>SYMBOLISM IN RELIGION</p> <p>LOOKING AFTER THE COUNTRYSIDE AND YOURSELF</p>

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INFORMATION & COMMUNICATION TECHNOLOGY	Create and animate slides on Powerpoint to create a presentation
PHYSICAL EDUCATION	<p>Yoga and mindfulness</p> <p>Completing fitness sessions such as 'Joe Wicks PE lessons'</p> <p>Online dance 'classes' such as Just dance or dance with Oti</p> <p>Challenging yourself daily with small activities- how many laps of the garden can you do in 5 mins, how quickly can you complete a lap of your garden, how many speed bounce can you complete in 30 secs. How many times can you juggle to ball on the racket without dropping it. How far and how high can you jump from a standing position.</p> <p>Design a training session that can develop skills in a range of different sports?</p> <p>Plan your ideal sports day</p> <p>Create a diet and exercise diary for athletes in different sports.</p> <p>Research a sportsperson and create a factfile about their life.</p>
MUSIC	To learn about different classical composers, research key events in their lives; to listen with attention to detail and recall sounds with increasing aural memory. Appreciate and understand a wide range of high-quality live and recorded music drawn from different great composers and musicians.
FRENCH	Continue work on extending vocabulary and learning about French culture and traditions.
ART & DESIGN	<p>To continue to study the works of Vincent Van Gogh (using a variety of materials and techniques).</p> <p>To look at the styles and works of Famous Artists.</p>
STUDY SKILLS	<p>Developing knowledge and techniques for exams.</p> <p>Verbal reasoning skills:</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> <p>Logic</p> <ul style="list-style-type: none"> • Statement logic; • Deductions; • Number logic; • Letter logic; <p>NUMBER</p> <p>Number</p>

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	<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">• manipulating shapes through rotation and reflection• exploring nets of 3D shapes• identifying the odd one out• extending a pattern, pairing sequence• matrices, odd one out, following a pattern, odd shaped matrices• Codes
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