















# Park Community School Key Stage 3 Curriculum map







	Year 7	Year 8	Year 9
<b>Intention:</b> 1. logical reasoning and problem solving 2. fluency 3. functionality. <b>Starters:</b> TimesTable Rockstars + Numeracy Ninjas <b>Homework:</b> MyMaths			
<b>Impact Baseline:</b> SAT arithmetic scores + GL baseline + SEN numeracy tests + CATs <b>Impact Formative:</b> Exit tickets + Low stakes progress quiz <b>Impact summative:</b> Termly MCQ + GL end of year test			
Autumn 1	<b>Taking flight:</b> <ul style="list-style-type: none"><li>Speed, distance, time</li><li>Angles of elevation</li><li>Plans and elevations</li><li>Collect, record and present data</li><li>Introduction to proportionality</li></ul>   GL assessment follow up, emphasis on number skills	<b>Number:</b> <ul style="list-style-type: none"><li>Order fractions, decimals and percentages</li><li>Prime factorization</li><li>HCF, LCM, Rounding, sig figs and estimation</li><li>Using a calculator</li><li>Inc. Standard form (conversion)</li></ul>	<b>Number:</b> <ul style="list-style-type: none"><li>Use prime factorisation to calculate HCF and LCM of 2 or more numbers</li><li>Use surd notation</li><li>Use the product rule for counting</li></ul>
Autumn 2	<b>Algebra:</b> <ul style="list-style-type: none"><li>Substitution</li><li>Form algebraic expressions and equations</li><li>Solve equations 1 and 2 step</li><li>Forming expressions and equations</li><li>Sequences (continuing and nth term)</li></ul> 	<b>Algebra:</b> <ul style="list-style-type: none"><li>Generating a set of co-ordinates</li><li>Drawing linear equations</li><li>Calculating gradient of a straight-line graph</li></ul> 	<b>Algebra:</b> <ul style="list-style-type: none"><li>Expand single and double brackets</li><li>Factorise algebraic expressions</li><li>Solve linear inequalities</li></ul>
Spring 1	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Draw, measure and name acute and obtuse angles and shapes</li><li>Properties of triangles and quadrilaterals Inc. use of algebra</li><li>Angle reasoning</li><li>Area of parallelograms and trapeziums</li><li>Area of compound shapes</li></ul> 	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Drawing the net of a 2D shape</li><li>Calculate surface area of a 3D shape</li><li>Calculate volume of 3D shape</li><li>Calculate circumference and area of circles</li></ul> 	<b>Statistics:</b> <ul style="list-style-type: none"><li>Draw and interpret composite and comparative bar charts</li><li>Plot and interpret time series graphs</li><li>Plot and interpret scatter graphs</li><li>Draw and interpret histograms</li></ul> <b>GCSE statistics 1, 2 and 3</b>
Spring 2	<b>Ratio and proportionality:</b> <ul style="list-style-type: none"><li>Add and subtract improper fractions</li><li>Fraction of a quantity</li><li>Convert between fractions, decimals and percentages</li><li>Percentage of a quantity</li></ul> 	<b>Ratio and proportionality:</b> <ul style="list-style-type: none"><li>Expressing a quantity as a percentage of another</li><li>Percentage increase and decrease</li><li>Sharing a quantity into a given ratio</li><li>Compound measures Speed, distance, time, DMV, PMF</li></ul>	<b>Ratio and proportionality:</b> <ul style="list-style-type: none"><li>Understand ratio as a fraction</li><li>Repeat percentage change with links to finance</li><li>Reverse percentages</li><li>Pythagoras' theorem</li></ul> 
Summer 1	<b>Statistics:</b> <ul style="list-style-type: none"><li>Discrete v's Continuous data</li><li>Construct and interpret bar charts</li><li>Construct and interpret pie charts</li><li>Construct and interpret stem and leaf diagrams</li><li>Interpret distance time graphs</li></ul> 	<b>Probability:</b> <ul style="list-style-type: none"><li>Using a probability scale</li><li>Construct sample space diagrams</li><li>Construct two tables</li><li>Complete a probability tree</li></ul> 	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Angles in parallel lines using co-interior angle rule</li><li>Calculate interior and exterior angles of any regular polygon</li><li>Solve problems involving regular and irregular polygons</li></ul>
Summer 2	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Plans and elevations</li><li>Bisect angles and lines</li><li>Draw loci</li><li>How to revise</li><li>GL assessment follow-up</li></ul> 	<b>Binary and hexadecimal:</b> <ul style="list-style-type: none"><li>Convert to and from binary</li><li>Convert to and from hexadecimal</li><li>Add and subtract binary numbers</li><li>How to revise</li><li>GL assessment follow up</li></ul> 	<b>Finance:</b> <ul style="list-style-type: none"><li>Saving money</li><li>Paying tax</li><li>Applying for loans and mortgages</li><li>How to revise</li><li>End of KS3 exam follow-up</li></ul> 



# Park Community School Key Stage 4 Curriculum map



Park Community School Key Stage 4 Curriculum map				
	Year 10 Foundation	Year 10 Higher	Year 11 Foundation	Year 11 Higher
<b>Intention:</b> 1. logical reasoning and problem solving 2. fluency 3. functionality in real-life [cross curricular] contexts <b>Starters:</b> Retrieval practice based on QLA from most recent mock exams <b>Homework:</b> MyMaths + GCSE Pod for retrieval practice exercises				
<b>Impact Formative:</b> Exit tickets + Fortnightly Mini-rolls [cumulative 1 <sup>st</sup> 40 marks] <b>Impact summative =</b> Mock 1 Oct [year 10 tiering papers, year 11 2 papers] Mock 2 January 3 papers, Mock 3 March [year 11 3 papers] Pin-point personalised learning booklets post every mock from end of year 9 onwards				
Autumn 1	<b>Algebra:</b> <ul style="list-style-type: none"><li>Midpoint of line segment</li><li><math>y=mx+c</math></li><li>Parallel and perpendicular lines</li><li>Rates of change</li></ul>	<b>Algebra:</b> <ul style="list-style-type: none"><li>Simultaneous equations</li><li>Graph quadratics</li><li>Solve quadratics</li><li>Complete the square</li></ul>  <b>Statistics 4 and 5</b>	<b>Number:</b> <ul style="list-style-type: none"><li>Index laws</li><li>Add and subtract standard form</li><li>Multiply and divide standard form</li></ul>	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Vector arithmetic</li><li>Solve problems involving vectors</li></ul>
Autumn 2	<b>Ratio and proportionality:</b> <ul style="list-style-type: none"><li>Ratio problems with decimals</li><li>Direct proportion</li><li>Pythagoras</li><li>Trigonometry</li></ul>	<b>Ratio and proportionality:</b> <ul style="list-style-type: none"><li>Percentage profit and loss</li><li>Growth and decay problems</li><li>Direct and indirect proportionality</li></ul> <b>Statistics 6 and 7</b>	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Recognize congruent shapes</li><li>Solve similarity problems</li><li>Add and subtract vectors</li><li>Calculate multiples of vectors</li></ul>	<b>Algebra:</b> <ul style="list-style-type: none"><li>Calculate gradient of a tangent to a curve</li><li>Calculate area under a curve</li></ul>
Spring 1	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Area and perimeter of sectors and arcs</li><li>Volume of pyramids</li><li>Volume of spheres</li></ul>	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Solve problems using congruency</li><li>Solve problems using similarity</li></ul> <b>Statistics 8</b>	<b>January mocks</b>  <ul style="list-style-type: none"><li>How to revise</li><li>Key exam topics</li><li>Green penning of exam papers</li></ul>	
Spring 2	<b>Ratio and proportionality:</b> <ul style="list-style-type: none"><li>Percentage profit and loss</li><li>Growth and decay problems</li><li>Compound measures</li></ul>	<b>Geometry and measures:</b> <ul style="list-style-type: none"><li>Trigonometric graphs</li><li>3D Pythagoras</li><li>3D trigonometry</li></ul>	<b>GCSE “Run in”</b> Topics chosen for study based on QLA analysis of January mock 	
Summer 1	<b>Algebra:</b> <ul style="list-style-type: none"><li>Plot quadratic graphs</li><li>Factorise quadratic graphs</li><li>Solve quadratic equations</li></ul>	<b>Algebra:</b> <ul style="list-style-type: none"><li>Graph inequalities</li><li>Graph and solve cubic functions</li><li>Iterative process</li></ul>	<b>GCSE exam season</b>  Walking talking mocks and half term study clubs delivered alongside individualised GCSE “Run in” lessons. Use of personalised PinPoint learning booklets.	
Summer 2	<b>End of year mock exams:</b>  <ul style="list-style-type: none"><li>How to revise</li><li>Retrieval practice lessons</li><li>Green pen follow up of exam papers</li><li>PinPoint learning personalized booklets</li></ul>			