

Mathematics Curriculum Overview - 2023-2024

Class Group	Intent/ Rationale	Autumn 1 04/09/23 27/10/23	Autumn 2 06/11/23 22/12/2023	Spring 1 08/01/24 09/12/24	Spring 2 19/02/24 22/03/24	Summer 1 08/04/24 24/05/24	Summer 2 03/06/24 19/07/24
2cc	Students in 2CC require strengthening of basic skills to enable them to progress. Their scheme is designed to strengthen and extend understanding of topics essential to their mathematical journey. One lesson every week is dedicated to problem solving and re-visiting topics previously taught to strengthen understanding and grow confidence.	<ul style="list-style-type: none"> Place Value Addition and Subtraction 	<ul style="list-style-type: none"> Length and Perimeter Multiplication and Division 	<ul style="list-style-type: none"> Multiplication and Division Area 	<ul style="list-style-type: none"> Fractions Decimals 	<ul style="list-style-type: none"> Decimals Money Time 	<ul style="list-style-type: none"> Statistics Properties of Shape Position and Direction
1c	Students Joining High Point Academy in year 7 will experience a curriculum designed to strengthen and extend their existing knowledge while addressing any gaps or misconceptions they may have. A fundamental grasp of basic mathematical concepts is essential to every student's academic and personal growth and self-worth. Hence the curriculum is sequenced to ensure every child is given the tools they need to succeed. One lesson every week is dedicated to problem solving and re-visiting topics previously taught to strengthen understanding and grow confidence.	<ul style="list-style-type: none"> Place Value Addition and Subtraction 	<ul style="list-style-type: none"> Length and Perimeter Multiplication and Division 	<ul style="list-style-type: none"> Multiplication and Division Area 	<ul style="list-style-type: none"> Fractions Decimals 	<ul style="list-style-type: none"> Decimals Money Time 	<ul style="list-style-type: none"> Statistics Properties of Shape Position and Direction
2c	Students in 2C have gained an understanding of specific basic mathematical principles and show confidence and aptitude. Topics are sequenced to help	<ul style="list-style-type: none"> Place Value 	<ul style="list-style-type: none"> Multiplication and Division 	<ul style="list-style-type: none"> Multiplication and Division Fractions 	<ul style="list-style-type: none"> Fractions (cont) 	<ul style="list-style-type: none"> Decimals Properties of Shape 	<ul style="list-style-type: none"> Position and Direction

	<p>strengthen this basic knowledge and then begin to extend it into other areas of mathematics with increasing real-world application and relevance. One lesson every week is dedicated to problem solving and re-visiting topics previously taught to strengthen understanding and grow confidence.</p>	<ul style="list-style-type: none"> • Addition and Subtraction • Statistics 	<ul style="list-style-type: none"> • Perimeter and Area 		<ul style="list-style-type: none"> • Decimals and Percentages 		<ul style="list-style-type: none"> • Converting units • Volume
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3c	<p>Students in 3C have gained an understanding of specific basic mathematical principles and insight into some real-world application of mathematics. The curriculum is sequenced to drive forward students understanding of higher order mathematical techniques and logic-based application. One lesson every week is dedicated to problem solving and re-visiting topics previously taught to strengthen understanding and grow confidence.</p>	<ul style="list-style-type: none"> • Sequences • Algebraic Notation • Equality and Equivalence 	<ul style="list-style-type: none"> • Place value, ordering integers and decimals • Fraction, decimal and percentage equivalence 	<ul style="list-style-type: none"> • Solving problems with addition and subtraction • Solving problems with multiplication and division • Fraction and percentages of amounts 	<ul style="list-style-type: none"> • Operations and equations with directed number • Addition and subtraction of fractions 	<ul style="list-style-type: none"> • Constructing, measuring and using geometric notation • Developing geometric reasoning • Developing number sense 	<ul style="list-style-type: none"> • Sets and probability • Prime numbers and proof
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By the end of KS3

Students will have studied a wide range of mathematical topics ranging from algebra, statistics, shape, space and measure and number. They will have a rich understanding of key mathematical principles and how Maths relates to the real world. They will be competent in their ability to tackle real world problems using key mathematical concepts.

4c	<p>Students in year 10 will be completing their entry level qualification this year. They will also be developing their understanding of increasingly complex mathematical concepts and applying them to</p>	<ul style="list-style-type: none"> • Ratio and scale • Multiplicative change 	<ul style="list-style-type: none"> • Working in the cartesian • Representing data 	<ul style="list-style-type: none"> • OCR initial – Entry Level • Brackets, equations 	<ul style="list-style-type: none"> • OCR practical - Entry Level 	<ul style="list-style-type: none"> • OCR Final - Entry Level • Angles in parallel lines 	<ul style="list-style-type: none"> • The data handling cycle • Measures of location
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	<p>problem solving and real-life examples. Interleaving of key mathematical concepts and previously taught topics will be covered at the start of every lesson.</p>	<ul style="list-style-type: none"> • Multiplying and dividing fractions 	<ul style="list-style-type: none"> • Tables and probability 	<p>and inequalities</p> <ul style="list-style-type: none"> • Sequences • Indices 	<ul style="list-style-type: none"> • Fractions and Percentages • Standard index form • Number sense 	<p>and polygons</p> <ul style="list-style-type: none"> • Area of Trapezia and circles • Line symmetry and reflection 	<ul style="list-style-type: none"> • Consolidation
5c	<p>Students in year 11 that did not achieve entry level 1 will be aiming to achieve a higher entry level this year and sit their GCSE Maths exams. Key higher order topics will be covered that enable every student to apply Maths in a real world setting and prepare them for exams. Students will have the opportunity to sit several practice GCSE exam papers and discuss worked solutions and exam technique.</p>	<ul style="list-style-type: none"> • Straight line graphs • Forming and Solving Equations 	<ul style="list-style-type: none"> • Three dimensional shapes • Constructions and congruency 	<ul style="list-style-type: none"> • OCR initial – Entry Level • Numbers • Using percentages • Maths and Money 	<ul style="list-style-type: none"> • OCR practical - Entry Level • Geometry - deduction • Rotation and Translation • Pythagoras • Revision 	<ul style="list-style-type: none"> • OCR Final - Entry Level • Revision • GCSE's 	<ul style="list-style-type: none"> • Revision • GCSE's

By the end of KS4

Students will have secured entry level Maths and GCSE Maths qualifications. They will be equipped with necessary key mathematical skills to enable them to succeed in their lives beyond High Point Academy.