



## Middlewich High School Maths Department – 5 Year Curriculum Intent.



Maths Curriculum.	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	<p><b>Four rules with whole numbers and decimals</b></p> <p><b>Using negative numbers effectively</b></p> <p><b>Order of Operations</b></p> <p><b>Measures of 2D Shapes</b></p> <p><b>Introduction to basic algebra notation</b></p> <p><b>Understanding Ratio and Fractions</b></p> <p><b>Properties of 2D shapes</b></p>	<p><b>Representing Categorical Data</b></p> <p><b>Angle facts</b></p> <p><b>Form &amp; solve linear equations</b></p> <p><b>Use of a Calculator</b></p> <p><b>3D shapes</b></p>	<p><b>Writing Formulae &amp; Substitution</b></p> <p><b>Metric Units</b></p> <p><b>Rounding</b></p> <p><b>Vertical &amp; horizontal lines in 4 quads</b></p> <p><b>Reflection &amp; rotation</b></p> <p><b>Factors, multiples, primes</b></p>	<p><b>Theoretical Probability</b></p> <p><b>Constructions</b></p> <p><b>FDP Equivalences</b></p> <p><b>Generate sequences</b></p> <p><b>Adding &amp; subtracting fractions</b></p>	<p><b>Proportion: Scaling</b></p> <p><b>Percentages</b></p> <p><b>Changing the subject</b></p> <p><b>Averages</b></p>	<p><b>Representing inequalities on a number line</b></p> <p><b>Plot graphs of linear functions</b></p> <p><b>Solving problems involving time, timetables and two-way table</b></p> <p><b>Time Series Charts</b></p> <p><b>Real life graphs – No explicit use of speed formula</b></p>
Year 8	<p><b>Use of a Calculator</b></p> <p><b>Order of Operations</b></p> <p><b>Area and Circumference of Circles</b></p> <p><b>Area of Compound Shapes</b></p> <p><b>Finding and Using the <math>n^{\text{th}}</math> term</b></p> <p><b>Representing Data</b></p> <p><b>Equation of a Straight Line</b></p> <p><b>Two Way Tables and Venn Diagrams</b></p>	<p><b>Rounding and Estimation</b></p> <p><b>Percentages and Finance</b></p> <p><b>Expanding Single Brackets</b></p> <p><b>Factorising Expressions</b></p> <p><b>Sharing in a Ratio</b></p> <p><b>Unit Ratio</b></p>	<p><b>Angles in Parallel Lines</b></p> <p><b>Averages</b></p> <p><b>Mean from a Frequency Table</b></p> <p><b>Multiplying and Dividing Negatives</b></p> <p><b>Substitution</b></p> <p><b>Constructions and Loci</b></p> <p><b>Translation and Enlargements</b></p> <p><b>Changing the Subject</b></p>	<p><b>Calculating with Fractions</b></p> <p><b>3D Shapes</b></p> <p><b>Solving Equations</b></p> <p><b>Probability</b></p> <p><b>Simple Direct Proportion</b></p>	<p><b>Speed, Distance, Time</b></p> <p><b>Solve Linear Inequalities</b></p> <p><b>HCF &amp; LCM by listing</b></p> <p><b>Indices</b></p>	<p><b>Multiplying Decimals</b></p> <p><b>Plotting Quadratics</b></p> <p><b>Converting between Metric Units for Area</b></p> <p><b>Bearings and Scale Drawing</b></p> <p><b>Direct Proportion Graphs</b></p>

			<b>Mixed Numbers</b> <b>Ordering FDP</b>			
Year 9	<b>Calculating with Fractions</b> Fraction, Decimal and Percentage equivalence and Calculations Expanding brackets Lengths in Right-Angled Triangles Probability of Combined Events Percentage change Higher Order Formulae	Transformations Dividing into Ratio Angles & Polygons Rules of indices Solve equations involving unknowns on both sides	<b>Standard form</b> Equations of Linear Graphs Similarity Set notation Metric Units for Volume Accuracy	Direct proportion Nth term of Quadratic Sequence 3D Shapes Volume & Surface Area Relative Frequency Use of a calculator	Speed and rate of change Simultaneous Equations Graphically Construction & Loci	Grouped Frequency Tables & Averages Non-linear graphs Arcs and Sectors Solve & Represent Inequalities Scatter Graphs Prime Factor Form Proportion Graphs
Year 10 F	<b>Number skills</b> Transformations Algebra skills <b>Operations with Fractions</b> Relative Frequency & Frequency Trees <b>Fractions, Decimals and Percentages</b>	Sequences Angle facts in Polygons & Parallel Lines Linear graphs Percentages (inc compound) <b>Data Representation &amp; Statistical Graphs</b>	<b>Averages &amp; Range</b> properties of shapes, Tessellation Speed, Distance, time Graphs & Timetables Area and Perimeter Solving Linear Inequalities	<b>Scatter Diagrams, Time Series Graphs</b> Conversion & Conversion Graphs <b>Sample Space &amp; Venn Diagrams</b> <b>Rounding, Significant Figures &amp; Estimation</b> Circumference & Area of Circles Arcs and Sectors	Bearings & Scale Drawings Surface Area, Volume & Density Revision, Assessments & Feedback	<b>Index Laws</b> Right Angled Trigonometry <b>Tree Diagrams</b> <b>Standard Form</b> Best buy, ratio
Year 10 H	Algebra Skills <b>Surds</b> Transformations <b>Comparing Ratio</b>	<b>Probability</b> <b>Product of primes, Sequences</b> <b>Index notation and Standard Form</b>	Right angled Triangles <b>Rates of change</b> Congruence and Similarity Sine and Cosine Rule	<b>Cumulative Frequency, Histograms</b> Completing the square, quadratic formula	Loci, angles in polygons Circle Theorems Revision, Assessment and Feedback	Algebraic Fractions Simultaneous Equations (with Quadratics) <b>Error Bounds</b>

	<p>Linear Graphs</p> <p>Percentages</p>	<p>Solve Quadratic Equations Graphically</p> <p>Averages and Range</p>	<p>Equation of Circles</p>	<p>Area and Circumference, Volume and Surface Area</p> <p>Area and Volume of Similar Figures, Density</p>		<p>Translating Graphs</p>
Year 11 F	<p>Averages &amp; Range</p> <p>Data representation &amp; Statistical Graphs</p> <p>Algebra Skills, Rearranging Formula</p>	<p>Error Bounds</p> <p>Non Linear Graphs</p> <p>Congruent Shapes, Similar Triangles &amp; Enlargement</p> <p>Factorising Quadratics</p>	<p>Construction, Scale Drawings &amp; Loci</p> <p>Ratio and Proportion</p> <p>Revision, Assessment and Feedback</p>	<p>Misleading Graphs, Sampling &amp; Questionnaires</p> <p>Equations for Proportionality</p> <p>Right Angled Trigonometry</p>	Revision	
Year 11 H	<p>Direct and inverse proportion</p> <p>Data</p> <p>Trig graphs</p>	<p>Inequalities using algebra and graphs</p> <p>Constructions, scale drawings, bearings and loci</p> <p>Functions</p> <p>Algebraic Proof</p> <p>Recap Trig</p>	<p>Recap quadratic and simultaneous equations</p> <p>Recap written calculations -Surds</p> <p>Revision, Assessment and Feedback</p>	<p>Geometry recap</p> <p>Quadratics recap</p> <p>Iteration</p>	Revision	

KEY:	Number	Algebra	Ratio, Proportion & Rates of Change	Geometry & Measures	Statistics & Probability
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