



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

			Mixed Numbers Ordering FDP			
Year 9	Calculating with Fractions 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	Standard form 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	Number skills Transformations Algebra skills Operations with Fractions Relative Frequency & Frequency Trees Fractions, Decimals and Percentages	Sequences Angle facts in Polygons & Parallel Lines Linear graphs Percentages (inc compound) Data Representation & Statistical Graphs	Averages & Range properties of shapes, Tessellation Speed, Distance, time Graphs & Timetables Area and Perimeter Solving Linear Inequalities	Scatter Diagrams, Time Series Graphs Conversion & Conversion Graphs Sample Space & Venn Diagrams Rounding, Significant Figures & Estimation Circumference & Area of Circles Arcs and Sectors	Bearings & Scale Drawings Surface Area, Volume & Density Revision, Assessments & Feedback	Index Laws Right Angled Trigonometry Tree Diagrams Standard Form Best buy, ratio

Year 10 H	Algebra Skills Surds Transformations Comparing Ratio Linear Graphs Percentages	Probability Product of primes, Sequences Index notation and Standard Form Solve Quadratic Equations Graphically Averages and Range	Right angled Triangles Rates of change Congruence and Similarity Sine and Cosine Rule Equation of Circles	Cumulative Frequency, Histograms Completing the square, quadratic formula Area and Circumference, Volume and Surface Area Area and Volume of Similar Figures, Density	Loci, angles in polygons Circle Theorems Revision, Assessment and Feedback	Algebraic Fractions Simultaneous Equations (with Quadratics) Error Bounds Translating Graphs
Year 11 F	Averages & Range Data representation & Statistical Graphs Algebra Skills, Rearranging Formula	Error Bounds Non Linear Graphs Congruent Shapes, Similar Triangles & Enlargement Factorising Quadratics	Construction, Scale Drawings & Loci Ratio and Proportion Revision, Assessment and Feedback	Misleading Graphs, Sampling & Questionnaires Equations for Proportionality Right Angled Trigonometry	Revision	
Year 11 H	Direct and inverse proportion Data Trig graphs	Inequalities using algebra and graphs Constructions, scale drawings, bearings & loci Functions Algebraic Proof Recap Trig	Recap quadratic and simultaneous equations Recap written calculations -Surds Revision, Assessment and Feedback	Geometry recap Quadratics recap Iteration	Revision	

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