



# GILBERT INGLESFIELD ACADEMY

## Year 7 Maths Curriculum Map 2023 – 2024

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Whole Numbers and Decimals</b> <ul style="list-style-type: none"><li>Place value and decimals</li><li>Multiplying by 10, 100, 1000</li><li>Negative numbers</li><li>Multiplying and dividing integers</li><li>Mental methods of addition and subtraction</li><li>Written methods of addition and subtraction</li><li>Calculator methods</li></ul> <b>Measures, perimeter and area</b> <ul style="list-style-type: none"><li>Length</li><li>Units of measurement</li><li>Converting between metric units</li><li>Perimeter</li><li>Area of shapes</li></ul>	<b>Fractions, decimals and percentages</b> <ul style="list-style-type: none"><li>Fractions</li><li>Equivalent fractions</li><li>Addition and subtractions</li><li>Decimals and fractions</li><li>Fractions of a quantity</li><li>Percentages</li><li>Fractions, decimals and percentages</li></ul> <b>Angles and 2D Shapes</b> <ul style="list-style-type: none"><li>Angle measure</li><li>Measuring angles</li><li>Drawing lines and angles</li><li>Calculating angles</li><li>Angles in triangles</li><li>Properties of triangles</li><li>Properties of quadrilaterals</li></ul>	<b>Whole Number Calculations</b> <ul style="list-style-type: none"><li>Rounding</li><li>Order of operations</li><li>Multiply and divide by powers of 10</li><li>Mental multiplication and division</li><li>Written method of multiplication</li><li>Written methods of division</li><li>Calculator Methods</li></ul> <b>Statistics</b> <ul style="list-style-type: none"><li>Bar charts</li><li>Reading and interpreting pie charts</li><li>Line graphs</li><li>Mode, median and range</li><li>The mean</li><li>Interpreting graphs and charts</li><li>Planning a statistical enquiry</li><li>Collecting data</li><li>Tally charts and frequency tables</li><li>Comparing data</li></ul>	<b>Equations</b> <ul style="list-style-type: none"><li>Multiplying and dividing terms</li><li>Balancing calculations</li><li>Simple equations</li><li>Two-step equations</li></ul> <b>Factors and Multiples</b> <ul style="list-style-type: none"><li>Factors and multiples</li><li>Square numbers</li><li>Square roots</li><li>Prime numbers</li><li>Lowest common multiples</li><li>Highest common factors</li></ul> <b>Constructions and 3D Shapes</b> <ul style="list-style-type: none"><li>Constructing triangles</li><li>Properties of 3D shapes</li><li>Isometric drawings</li><li>Nets of 3D Shapes</li><li>Surface area and volume of a cuboid</li></ul>	<b>Sequences</b> <ul style="list-style-type: none"><li>Sequences</li><li>Sequence rules</li><li>Term to term rules</li><li>Position in a sequence</li></ul> <b>Decimal Calculations</b> <ul style="list-style-type: none"><li>Mental methods with decimals</li><li>Written methods of multiplying decimals</li><li>Written methods of dividing decimals</li><li>Interpreting a calculator display</li></ul> <b>Ratio and Proportion</b> <ul style="list-style-type: none"><li>Proportion</li><li>Direct proportion</li><li>Ratio</li><li>Division in a given ratio</li><li>Ratio and proportion problems</li><li>Percentage increase and decrease</li></ul>	<b>Probability</b> <ul style="list-style-type: none"><li>The probability scale</li><li>More probability</li><li>Listing outcomes</li><li>Theoretical probability</li><li>Experimental probability</li></ul> <b>Everyday Maths</b> <ul style="list-style-type: none"><li>Application of learned mathematical skills in real life contexts</li></ul>

<b>Expressions and Formulae</b> <ul style="list-style-type: none"> <li>• Simplifying and substituting</li> <li>• Expressions</li> <li>• Collecting like terms</li> <li>• Indices</li> <li>• Like terms</li> <li>• Using and writing a formula</li> <li>• Expressions and formulae</li> </ul>	<b>Graphs</b> <ul style="list-style-type: none"> <li>• Co-ordinates</li> <li>• Tables of values</li> <li>• Plotting straight line graphs</li> <li>• Real-life graphs</li> </ul>	<b>Transformations and symmetry</b> <ul style="list-style-type: none"> <li>• Reflection</li> <li>• Reflection symmetry</li> <li>• Rotation</li> <li>• Rotation symmetry</li> <li>• Translation</li> <li>• Tessellations</li> </ul>			
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