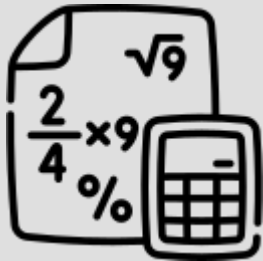


## Year 8 Mathematics



### Summer Term 2

Averages, Symmetry and Reflection, Data Handling, Straight Line Graphs

### Summer Term 1

Angles in Parallel Lines, Angles in Polygons, Area of 2D Shapes

### Spring Term 2

Standard Form, Number Sense, Angles

### Spring Term 1

Inequalities, Sequences, Indices, Fractions and Percentages

### Autumn Term 2

Tables and Probability, Brackets and Equations

### Autumn Term 1

Ratio and Scale, Multiplicative Change, Multiplying and Dividing Fractions, Representing data



Knowledge	Attributes / Character	Skills	Experiences
<ul style="list-style-type: none"> <li>• Ratio and Scale</li> <li>• Multiplicative Change</li> <li>• Multiplying and Dividing Fractions</li> <li>• Working in the Cartesian Plane</li> <li>• Representing Data</li> <li>• Tables and Probability</li> <li>• Brackets and Equations</li> <li>• Inequalities</li> <li>• Sequence</li> <li>• Indices</li> <li>• Fraction and Percentages</li> <li>• Standard Form</li> <li>• Number Sense</li> <li>• Angles</li> <li>• Angles in Parallel Lines</li> <li>• Angles in Polygons</li> <li>• Area of 2D Shapes</li> <li>• Averages</li> <li>• Symmetry and Reflection</li> <li>• Data Handling Cycle</li> </ul>	<ul style="list-style-type: none"> <li>• consolidate their numerical and mathematical capability from Year 7 and extend their understanding of the number system and place value to include decimals, fractions, powers and roots</li> <li>• use algebra to generalise the structure of arithmetic, including to formulate mathematical relationships</li> <li>• Continue to develop their mathematical knowledge, in part through solving problems and evaluating the outcomes, including multi-step problems</li> <li>• Continue to develop their use of formal mathematical knowledge to interpret and solve problems, including in financial mathematics</li> <li>• reason deductively in geometry, number and algebra, including using geometrical constructions</li> <li>• select and use appropriate calculation strategies to solve increasingly complex problems</li> </ul>	<p>UKMT Junior Challenge</p> <p>Maths Club</p> <p>Games Club</p> <p>Trust Challenge</p> <p>Mathswatch</p> <p>Rewards Trip</p>	<ul style="list-style-type: none"> <li>• Confidence - Students will be exposed to a variety of key knowledge while building on key concepts learnt in Year 7 to build a solid foundation for fluency and confidence.</li> <li>• Organisation - Homework is set on a weekly basis to extend learning from the classroom. Google Classroom is an important platform for all students where further extended learning, Revision and assessment information and important notices are uploaded. Students are expected to check both platforms regularly and complete all tasks in a timely manner.</li> <li>• Resilience - Students build their resilience through problem solving and reasoning.</li> <li>• Empathy - Students are encouraged to work in peers and support each other when they are stuck</li> </ul>