

## Mathematics Curriculum Overview

The Mathematics faculty at Calder Learning Trust believe that students deserve a creative and ambitious Mathematics curriculum, rich in skills and knowledge, which ignites curiosity and prepares them well for everyday life and future employment.

**Our Mathematics curriculum will give students the opportunity to:**

- become fluent in the fundamentals of mathematics, through varied and frequent practice with increasingly complex problems over time
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication
- can communicate, justify, argue and prove using mathematical vocabulary.
- develop their character, including resilience, confidence and independence, so that they contribute positively to the life of the school, their local community and the wider environment.

<b>Autumn Term - Year 7</b>	<b>Spring Term - Year 7</b>	<b>Summer Term - Year 7</b>
<b>Unit 1</b> The structure of the number system <b>Unit 2</b> Averages and displaying data <b>Unit 3</b> Directed number <b>Unit 4</b> Algebra	<b>Unit 5</b> The four operations <b>Unit 6</b> Proportion <b>Unit 7</b> Fractions and percentages	<b>Unit 8</b> Angles and constructions <b>Unit 9</b> Measures, area and perimeter <b>Unit 10</b> Sets and probability
<b>Autumn Term - Year 8</b>	<b>Spring Term - Year 8</b>	<b>Summer Term - Year 8</b>
<b>Unit 1</b> The structure of the number system <b>Unit 2</b> Percentages <b>Unit 3</b> Directed number <b>Unit 4</b> Algebra <b>Unit 5</b> Ratio and scale	<b>Unit 6</b> Linear graphs <b>Unit 7</b> Angles <b>Unit 8</b> Area and volume <b>Unit 9</b> Handling data	<b>Unit 10</b> Transformations <b>Unit 11</b> Constructions <b>Unit 12</b> Sets and probability
<b>Autumn Term - Year 9</b>	<b>Spring Term - Year 9</b>	<b>Summer Term - Year 9</b>
<b>Module 1</b> Number retrieval <b>Module 2</b> Linear algebra	<b>Module 3</b> Perimeter, area and volume <b>Module 4</b> Quadratic algebra	<b>Module 5</b> Pythagoras and trigonometry <b>Module 6</b> - Handling data
<b>Autumn Term - Year 10</b>	<b>Spring Term - Year 10</b>	<b>Summer Term - Year 10</b>
<b>GCSE Unit 1</b> Number retrieval <b>GCSE Unit 2</b> Algebra 1 <b>GCSE Unit 3</b> Angles <b>GCSE Unit 4</b> Fractions and percentages	<b>GCSE Unit 5</b> Probability <b>GCSE Unit 6</b> Ratio <b>GCSE Unit 7</b> Proportion	<b>GCSE Unit 8</b> Algebra 2 <b>GCSE Unit 9</b> Pythagoras and trigonometry
<b>Autumn Term - Year 11</b>	<b>Spring Term - Year 11</b>	<b>Summer Term - Year 11</b>
<b>GCSE Unit 10</b> Algebra 3 <b>GCSE Unit 11</b> Perimeter, area and volume	<b>GCSE Unit 12</b> Handling data <b>GCSE Unit 13</b> Geometry	<b>STRUCTURED GCSE REVISION</b>