# Mathematics Intent and Overview

The teaching and learning of maths at Maple Tree is ambitious and designed to give all children the knowledge they need to succeed in life. Our teachers make sure that the mathematical knowledge taught every day is relevant and develop pupils' mathematical fluency. They build on previous year's learning and revisit maths topics where progression is key. We incorporate sustained levels of challenge through varied and high quality learning with a focus on fluency, reasoning and problem solving. We promote pupils' exploration of maths, using mathematical vocabulary to reason and explain their understanding.
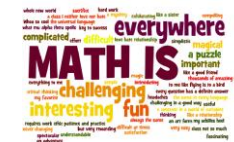
We want our pupils to be able to explain their choice of methods and develop their mathematical reasoning skills. We want to encourage resilience and acceptance that making mistakes is often a necessary step in maths learning.

Through our curriculum coverage, we aim for every child to be able to recognise the importance of maths in the wider world; we strive to enable them to use their mathematical knowledge confidently in a range of different contexts: between areas of maths, other subjects across the curriculum and to their everyday lives. From EYFS to Year 6, our curriculum is organised in a progressive way. Within Key Stage 1 and 2, our curriculum is organised so that children become fluent in number and place value and the four operations before applying this to other curriculum areas. We value the importance of fluent multiplication and division skills in order to develop key mathematical concepts; children throughout Key Stage 1 and 2 follow a progressive curriculum to support this.

We hope that some of our pupils will go on to study maths at further education level; and to then choose a career in the field of maths, for example as an accountant, engineer or a physicist.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	**Getting to know you:** Key times of day; Exploring the CP, inside and out; Positional language. **Just Like Me!** **Number:** Match and sort; Compare amounts. **Measure, Shape and Spatial Thinking:** Compare size, mass and capacity; Exploring pattern.	**It's me, 1,2,3!** **Number:** Representing 1,2 & 3; Comparing 1,2 & 3; Composition of 1,2 &3. **Measure, Shape and Spatial Thinking:** Circles and triangles; Positional language. **Light and Dark** **Number:** Representing numbers to 5; One more and less. **Measure, Shape and Spatial Thinking:** Shapes with 4 sides; Time.	**Alive in 5!** **Number:** Introducing zero; Comparing numbers to 5; Composition of 4 & 5. **Measure, Shape and Spatial Thinking:** Compare mass (2); Compare capacity (2). **Growing 6,7,8** **Number:** 6, 7, & 8; Combining 2 amounts; Making pairs. **Measure, Shape and Spatial Thinking:** Length and height: Time.	**Building 9, 10** **Number:** Counting to 9 & 10; Comparing numbers to 10: Bonds to 10. **Measure, Shape and Spatial Thinking:** 3d-shapes; Spatial awareness; Patterns.	**To 20 and Beyond** **Number:** Building numbers beyond 10; Counting patterns beyond 10. **Measure, Shape and Spatial Thinking:** Spatial reasoning; Match, rotate, manipulate. **First, then, now** **Number:** Adding more; Taking away. **Measure, Shape and Spatial Thinking:** Spatial reasoning; Compose and decompose.	**Find my pattern** **Number:** Doubling; Sharing and grouping; Even and odd. **Measure, Shape and Spatial Thinking:** Spatial reasoning; Visualise and build. **On the move** **Number:** Deepening understanding; Patterns and Relationships. **Measure, Shape and Spatial Thinking:** Spatial reasoning; Mapping.

Year 1	**Number:** place value within 10	**Number:** addition and subtraction within 10 **Shape:** geometry	**Number:** place value within 20 **Number:** addition and subtraction within 20	**Number:** Place value within 50 **Measurement:** length and height **Measurement:** Mass and Volume	**Number:** Multiplication and division **Number:** Fractions **Geometry:** Position and Direction	**Number:** Place value within 100 **Measurement:** Money **Measurement:** Time
Year 2	**Number:** place value **Number:** addition and subtraction	**Geometry:** shape	**Measurement:** money **Number:** multiplication and division	**Measurement:** length and height **Measurement:** mass, capacity and temperature	**Number:** fractions **Measurement:** time	**Statistics** **Geometry:** position and movement
Year 3	**Number:** place value, **Number:** addition and subtraction	**Number:** multiplication and division (A)	**Number:** multiplication and division (B) **Measurement:** length and perimeter	**Number:** fractions (A) **Measurement:** mass and capacity	**Number:** fractions (B) **Measurement:** money **Measurement:** time	**Geometry:** shape **Statistics**
Year 4	**Number:** place value, **Number:** addition and subtraction	**Measurement:** area **Number:** multiplication and division (A)	**Number:** multiplication and division (B) **Measurement:** length and perimeter	**Number:** fractions **Number:** decimals (A)	**Number:** decimals (B) **Measurement:** money **Measurement:** time	**Geometry:** shape **Statistics** **Geometry:** position and direction
Year 5	**Number:** place value **Number:** addition and subtraction	**Number:** multiplication and division (A) **Number:** fractions (A)	**Number:** multiplication and division (B) **Number:** fractions (B)	**Number:** decimals and percentages **Measurement:** perimeter and area **Statistics**	**Geometry:** shape **Geometry:** position and direction **Number:** decimals	**Number:** negative numbers **Measurement:** converting units **Measurement:** volume
Year 6	**Number:** place value **Number:** addition, subtraction, multiplication and division	**Number:** fractions (A) **Number:** fractions (B) **Measurement:** converting units	**Number:** ratio **Number:** algebra **Number:** decimals	**Number:** fractions, decimals and percentages **Measurement:** area, perimeter and volume **Statistics**	**Geometry:** shape **Geometry:** position and direction	Applied maths and consolidation