Maths

Mathematics is important in everyday life and, with this is mind, the purpose of Mathematics at Bournville School is to develop an ability to solve problems, to reason, to think logically and to work systematically and accurately. All children are challenged and encouraged to excel in Maths. New mathematical concepts are introduced using a 'Concrete, Pictorial and Abstract' approach; enabling all children to experience hands-on learning when discovering new mathematical topics, and allows them to have clear models and images to aid their understanding. Arithmetic and basic math skills are practised daily to ensure key mathematical concepts are embedded and children can recall this information to see the links between topics in Maths.

The aims for teaching mathematics in our school are:

- To ensure all pupils to be engaged and enthused with each mathematics lesson.
- To ensure all pupils to develop strong fluency skills that build towards solving reasoning and word problems.
- To ensure learning builds on previous learning through a clear and defined, school wide structure.
- To ensure all pupils can effectively and efficiently answer complex mathematical questions and be able to discuss their methods and explain their reasoning based on understanding of relationships and generalisations.
- To fulfil the requirements of the national curriculum for mathematics

Implementation:

Basic Maths skills are taught daily. Focussing on key mathematical skills including place value, the four operations and fractions.
A range of reasoning resources are used to challenge all children and give them the opportunity to reason with their understanding.
Maths meetings and immediate interventions are used to support children to ensure children are ready for their next Maths lesson.
Children are taught through targeted differentiated small group and mixed ability whole class lessons.

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Lessons use a Concrete, Pictorial and Abstract approach to guide children through their understanding of mathematical processes.

Feedback sheets are completed by teachers every lesson to ensure any misconceptions are overcome.

'Do now's are completed to check for prior knowledge

Where possible, links are made with other subjects across the curriculum.

Impact:

As a result of our Maths teaching at Bournville you will see:

Engaged children who are all challenged.

Confident children who can all talk about Maths and their learning and the links between Mathematical topics.

Lessons that use a variety of resources to support learning.

Different representations of mathematical concepts.

Learning that is tracked and monitored to ensure all children make good progress.

Maths Curriculum KS1 and KS2

Term	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1			Summer 2	
Year 1	Place Value within 10	Addition and Subtraction within 10	Shape	Place Value within 20	Addition and Subtraction within 20	Place Value within 50. (Multiples of 2, 5, 10 to be included)	Length and height	Weight and volume	Multiplication and Division Reinforce multiples of 2, 5 and 10.	Fractions	Position and direction	Place value within 100	Money	Time
Year 2	Place value	Addition and subtraction	Money	Multiplication and division	Multiplication and division	Statistics	Properties of shape	Fractions	Length and height	Position and direction	Problem solving and efficient methods	Time	Mass, capacity and temperature	Investigations

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Term	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2	
Year 3	Number: Place Value	Number: Addition and Subtraction	Number: Addition and Subtraction	Number: Multiplication and	Number: Multiplication and Division	Measurement: Money	Statistics	Measurement: Length and Perimeter	Number: Fractions	Number: Fractions	Measurement: Time	Geometry: Properties of Shape	Measurement: Mass and Capacity
Year 4	Number: Place Value	Number: Addition and subtraction	Measurement: Length and Perimeter	Number: Multiplication	Number: Multiplication and Division	Measurement: Area	Number: Fractions	Number: Fractions	Number: Decimals	Number: Decimals	Measurement: Money / Measurement: Time / Statistics	Geometry: Properties of shape	Geometry: Position and Direction

Term	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2	
Year 5	Number: Place Value	Number: Addition and Subtraction / Statistics	Number: Multiplication and Division	Measurement: Perimeter and Area.	Number: Multiplication and Division	Number: Fractions	Number: Fractions	Number: Decimals and Percentages	Number: Decimals	Geometry: Properties of Shape	Geometry: Position and Direction	Measurement: Converting units	Measurement: Volume
Year 6	Number: Place Value	Number: Addition, subtraction, multiplication and division / Number fractions / Geometry: Position and Direction	Number: Decimals / Number: percentages / Number: Algebra	Measurement: Converting units / Measurement: Perimeter, area and Volume / Number: Ratio	Geometry: Properties of shape / Problem solving	Measurement: Statistics	Investigations						

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