

## AIMS

The national curriculum for mathematics aims to ensure that all pupils:

- become **fluent** in the fundamentals of mathematics so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- **reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations.
- can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication.

As a school, we aim:

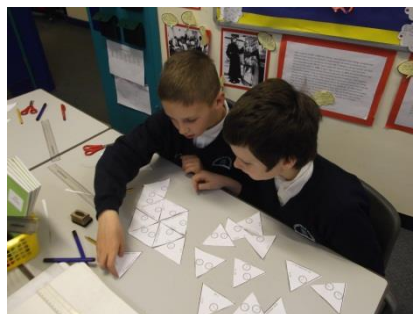
- To set challenging targets with high expectations for all pupils.
- To offer a variety of approaches to teaching and learning to engage and motivate pupils for active participation.
- To explore enrichment opportunities outside the curriculum to enhance pupils enjoyment of mathematics.
- To smooth the transition for pupils between Key Stages and ensure progression in teaching and learning throughout their time at school.



Throughout the school, the children have a weekly calculation lesson which focuses on different mental and written strategies of addition, subtraction, multiplication and division. These strategies progress in difficulty as the child moves through the school which gives them the grounding and the ability to choose an appropriate method for the task that they are faced with.

We have a variety of methods in delivering our mental maths including Big Maths Beat That and the use of Mathletics (which the children can also access from home). Children are encouraged to try and beat their previous scores and improved on all activities that they take part in.

At various points throughout the year, children are streamed into problem solving groups which we call Challenge Maths. This allows targeted support for developing problem solving skills.



Challenge Maths proves very popular with the children as it is an opportunity to think outside the box and attempt some unusual questions!

# MATHEMATICS

The number of weeks/sessions spent on each area of the Mathematics curriculum varies from year group to year group dependent on the content that needs to be taught. Each term, the objectives repeat on a cyclical basis although the difficulty level increases when the child is ready to progress.

KS1	<b>Year One Projects (Mathematic content)</b>		
	Planes, Trains and Automobiles	When I Grow Up	Oh, I do like to be beside the seaside!
	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape and position & direction.	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape and position & direction.	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape and position & direction.
	<b>Year Two Projects (Mathematic content)</b>		
	Planes, Trains and Automobiles	When I Grow Up	Oh, I do like to be beside the seaside!
	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape, position & direction and statistics.	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape, position & direction and statistics.	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape, position & direction and statistics.
KS2	<b>Year Three Projects (Mathematic content)</b>		
	River Deep, Mountain High	Rocking All Over the World	Time Warp
	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape and statistics.	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape and statistics.	Number and place value, addition & subtraction, multiplication & division, fractions, measurement, shape and statistics.
	<b>Year Four Projects (Mathematic content)</b>		
	River Deep, Mountain High	Rocking All Over the World	Time Warp
	Number and place value, addition & subtraction, multiplication & division, fractions and decimals, measurement, shape, position & direction and statistics.	Number and place value, addition & subtraction, multiplication & division, fractions and decimals, measurement, shape, position & direction and statistics.	Number and place value, addition & subtraction, multiplication & division, fractions and decimals, measurement, shape, position & direction and statistics.
	<b>Year Five Projects (Mathematic content)</b>		
	Through the Keyhole	Space Invaders	Here, There and Everywhere
	Number and place value, fractions, decimals & percentages, measurement, shape, position & direction and statistics.	Number and place value, fractions, decimals & percentages, measurement, shape, position & direction and statistics.	Number and place value, fractions, decimals & percentages, measurement, shape, position & direction and statistics.
	<b>Year Six Projects (Mathematic content)</b>		
	Through the Keyhole	Space Invaders	Here, There and Everywhere
	Number and place value, fractions, decimals & percentages, ration & proportion, algebra, measurement, shape, position & direction and statistics.	Number and place value, fractions, decimals & percentages, ration & proportion, algebra, measurement, shape, position & direction and statistics.	Number and place value, fractions, decimals & percentages, ration & proportion, algebra, measurement, shape, position & direction and statistics.