

# Our Curriculum

## Maths

### British Values

At Hayfield Cross, these values are regularly promoted through high quality teaching, a rounded programme of assemblies and a positive behaviour policy as well as through SMSC development through relationship and health education. This gives pupils opportunities to develop and demonstrate skills and attitudes that will allow them to participate fully in and contribute positively to life in modern Britain.

Specifically in Maths,

**Democracy** is taught through teamwork within group work and taking turns to listen to everyone speak and give their answers and explanations. Children are given the opportunity to share ideas for how a concept might work or how to solve a problem.

**Respect** and **Tolerance** is encouraged via teamwork within group work and talk tasks where children share their ideas and listen to others.

**Liberty** is encouraged where children's mistakes are discussed, sometimes shared and they learn from them. Within problem solving taking risks are encouraged to build self confidence and resilience. Children in KS2 are encouraged to devise their own ways to present ideas solutions. Children are often required to provide their own explanations for how they might solve a problem or how a concept works or doesn't work.

**Rule of Law** is observed by children following rules when playing maths games and also applying rules within mathematical concepts e.g. *algebra*.

### BE BRAVE

Maths lessons should be **Buzzing** with pupil **Engagement** and practical activities using the CPA approach.

Warm up activities may include a re-cap to **build upon prior learning** in the form of flashbacks and any relevant learning points from previous lessons will be on display via the maths working wall.

Children are encouraged to be **resilient** and keep trying and practising until they have mastered a skill. The star challenges allow them to progress at their own pace and build their self confidence. They also becoming increasingly more challenging so allow children to **aspire** to a deeper level of understanding.

Lessons are rich in mathematical **vocabulary** and children are encouraged to use the correct terminology. Relevant words are on display and sentence stems are often used to support children with explanations.

Assessment for learning via questioning is on-going during lessons and our maths lesson structure allows for self and peer **evaluation** at regular points. Children have ownership over their work and mark in purple pens to respond and correct their own work.

### Reading and Writing

The national curriculum for mathematics reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially and linguistically. The quality and variety of language that pupils hear and speak are key factors in developing their mathematical vocabulary and presenting a mathematical justification, argument or proof. Our talk tasks allow for children to engage in talk centred around maths concepts.

Lessons are rich in mathematical vocabulary and children are encouraged to use the correct terminology. Relevant words are on display and sentence stems are often used to support children with explanations.

Children will work on reading, understanding and solving word problems which increase in complexity as they move into KS2.

Children will work on reading numerals and on number formation and ensuring that they are the correct size and orientation.

They will also begin to use relevant language to provide explanations, describe time, position and direction and to compare various aspects such as numbers and units of measurement.