Hazeldown Primary School

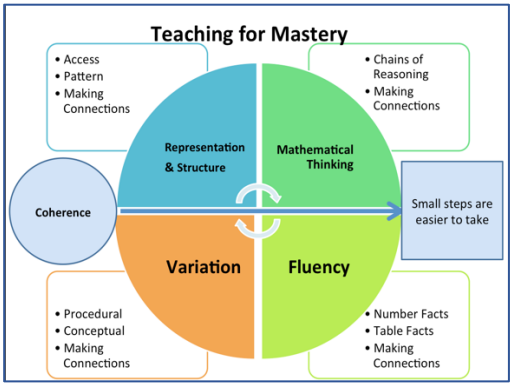
1 minute guide

Maths at Hazeldown

At Hazeldown, we use the Teaching for Mastery approach to learning maths. Teaching for Mastery is a style of teaching that encompasses the 5 Big Ideas.

The essence of mastery:

- Everyone can do maths!
- Whole class interactive teaching
- Early intervention and pre-teaching
- Lesson design
- Procedural fluency and conceptual understanding
- Intelligent practice
- Deep understanding
- Automaticity of addition and subtraction facts and multiplication tables



We work with the CODE Maths Hub and our Maths Subject Leader is a Primary Teaching for Mastery Specialist.

How much maths does my child get?

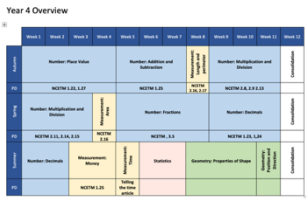
- Main maths lesson, 45 mins daily
- Number Talk, 20 mins once a week
- Arithmetic, 20 mins 3 times a week

Other maths opportunities outside of the maths lesson:

- Numbots (KS1)
- Times Tables Rock Stars (Yr2 + KS2)
- 5 to Try/ Early morning work
- Using Maths skills within their learning journeys

How do we decide what to teach?

We follow the National Curriculum which breaks down the expectations into year groups. To help teachers plan, we use a combination of resources which give the children a varied and deep understanding of maths.



We follow White Rose Maths overviews for long term planning ensuring each year group has full coverage throughout the year.

For lesson planning we use:

- White Rose planning
- Power Maths Textbook
- NCETM Professional Development materials
- Ready to Progress Criteria
- Number Sense Maths

We work closely with the National Centre for Teaching in Mathematics (NCETM) implementing the latest research into teaching maths.

Maths Lessons

During the week, children are exposed to a range of lesson formats. These include:

- Power Maths lessons
- Lessons created using NCETM materials
- Teacher created intelligent practice questions using variation
- Investigations or practical activities.

Supporting Metacognition

At the start of each maths lesson, teachers will use a 'Flashback 4 card'. These cards have been designed to help children move maths learning from their short-term memory into their long-term memory. Each card revisits previous maths learning. Q1 is something they learnt yesterday, Q2 is something they learnt last week, Q3 is something they learnt last month and Q4 is something they learnt last year.

Challenging our 'fast graspers'

Diving for Depth (D4D)

When a child is able to grasp a concept quickly, we look to deepen and broaden their understanding by presenting the same concept in different ways. We do this through Diving for Depth challenges. These are designed to make children think about the same concept but in a different way. They are also used to help children make connections between mathematical concepts.

Supporting children in Maths

Some children may be working out of year group. If this is the case, they will be covering the same strand as the rest of the class e.g. place value but will be given inputs and questions to suit the level at which they are learning. The Ready to Progress criteria, which can be found on our website, explains the key concepts that children need to understanding in order for them to be 'ready to progress' to the next year group.

How can I help my child at home?

There a several ways that you can help your child at home:

Mathematical mindset

Mathematical mindset is key to children's engagement and achievement. Children need to understand that maths is not just about getting the right answer the fastest. These videos from the youcubed website can be used to develop a growth mindset in maths.

https://www.youcubed.org/resource/mindset-boosting-videos/

It is also important that children hear the right messages about maths. Nobody is born with a 'maths brain' or 'not a maths brain'. The ability to understand maths is about the experience and exposure that a person has had. Anyone can achieve at maths but it will take hard work! Please make sure that you re-enforce this at home and don't let your own experiences of maths in school cloud your child's beliefs in their own ability to be successful in maths.

Numbots and TTRS

Numbots and Times Tables Rock Stars are programmes that we, as a school, have bought into as a school. These programmes develop the automatic recall of mathematical facts that will develop fluency and reduces cognitive load. Both programmes are available to all of our children from Foundation to Year 6. However, this is how we have chosen to use them within school:

Aimed at KS1, it practices addition and subtraction skills.

For Yr2 -Yr6. It develops speed and fluency of multiplication facts. Tables can be set for younger children. By Yr4 children should be practising up to 12x12. There is a rock guitar in each classroom to celebrate children's rock status. These need to be updated regularly. Time in class needs to be given for these activities.

To celebrate children's achievements in both TTRS and Numbots, children are awarded certificates and are photographed for our 'Hall of Fame' which is on the display boards opposite the school hall.

Extra Practice

There is no expectation for children to do any extra maths work at home. However, if you would like to do some extra practice at home, I would like to direct you towards these really fabulous practice books. They are produced by Power Maths – the Teaching for Mastery approved textbook that we use in school. Each year group has 3 practice books (one per term). They follow the same sequence of learning that we use in school and they present concepts in the same way as the children are seeing them in school. Practice books can be bought online for around £2 per book.

Please look at our calculations policy and our 'maths resources explained' documents on the website if you want to do extra work at home.