

EYFS – Reception Curriculum Map

Mathematics



Valued – Inspired – Prepared



Westhaven School is a unique learning environment with high expectations for learners who experience barriers to learning for a range of reasons. We promote a calm environment which enables everyone to learn. The golden thread that permeates our curriculum and our conduct through every school day are the core values which shape our learners to be:

- *safely independent*
- *confident communicators*
- *respectful citizens*
- *resilient learners*
- *inquisitive thinkers*

The Westhaven Way is our ethos and it underpins our daily approach to behaviour and learning.

Our vision

Our aim is to provide:

- strong warm and supportive relationships enabling all learners to thrive socially and emotionally
- expert teaching of an engaging curriculum
- high quality adult interactions within a carefully constructed, purposeful environment
- high quality continuous provision indoors and outdoors
- a rich reading environment with high quality texts, representing our children, their interests and the diversity of the world around them
- a robust approach to the teaching of phonics
- continuous assessment of learning and addressing gaps to support and challenge each individual

The characteristics of effective teaching and learning will be threaded throughout our ambitious curriculum

- **playing and exploring** – learners will investigate and experience things, and ‘have a go’;
- **active learning** – learners will concentrate and keep on trying if they encounter difficulties, and enjoy their achievements for their own sake;
- **creating and thinking critically** – learners will have and develop their own ideas, make links between ideas, and develop strategies for doing things.

Impact

- Learners fluency and mastery incrementally improves
- Learners know more, remember more and can do more
- Learners achieve to the best of their ability and level of development and are prepared for their next stage in education

EYFS Mathematics Educational Programme (Statutory)

Developing a **strong grounding in number** is essential so that all children **develop the necessary building blocks** to excel mathematically. Children should be able to **count confidently**, develop a **deep understanding** of the numbers to 10, the relationships between them and the **patterns** within those numbers. By providing frequent and varied opportunities to build and apply this understanding – such as using manipulatives, including small pebbles and tens frames for organising counting – children will develop a secure base of **knowledge and vocabulary** from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their **spatial reasoning** skills across all areas of mathematics including **shape, space and measures**. It is important that children develop positive attitudes and interests in mathematics, look for **patterns and relationships**, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.

EYFS Maths Skills

ELG: Number (Statutory)

Children at the expected level of development will:

- Have a deep understanding of number to 10, including the composition of each number;
- Subitise (recognise quantities without counting) up to 5;
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

ELG: Numerical patterns (Statutory)

Children at the expected level of development will:

- Verbally count beyond 20, recognising the pattern of the counting system;
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;

- Explore and represent patterns within numbers up to 10, including even and odds, double facts and how quantities can be distributed equally.

EYFS Maths Skills (Taken from Development Matters)

Birth to three

- Combine objects like stacking blocks and cups. Put objects inside others and take them out again.
- Take part in finger rhymes with numbers.
- React to changes of amount in a group of up to three items.
- Compare amounts, saying 'lots', 'more' or 'same'.
- Develop counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence.
- Count in everyday contexts, sometimes skipping numbers – '1-2-3-5'.
- Climb and squeeze themselves into different types of spaces.
- Build with a range of resources.
- Complete inset puzzles.
- Compare sizes, weights etc. using gesture and language – 'bigger/little/smaller', 'high/low', 'tall', 'heavy'.
- Notice patterns and arrange things in patterns

3 and 4 year olds

- Develop fast recognition of up to 3 objects, without having to count them individually ('subitising').
- Recite numbers past 5.
- Say one number for each item in order: 1,2,3,4,5.
- Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').
- Show 'finger numbers' up to 5.
- Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.
- Experiment with their own symbols and marks as well as numerals.
- Solve real world mathematical problems with numbers up to 5.
- Compare quantities using language: 'more than', 'fewer than'.
- Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.
- Understand position through words alone – for example, "The bag is under the table," – with no pointing.
- Describe a familiar route.
- Discuss routes and locations, using words like 'in front of' and 'behind'.
- Make comparisons between objects relating to size, length, weight and capacity.
- Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc.

- Combine shapes to make new ones – an arch, a bigger triangle, etc.
- Talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc.
- Extend and create ABAB patterns – stick, leaf, stick, leaf.
- Notice and correct an error in a repeating pattern.
- Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'

Children in reception

- Count objects, actions and sounds.
- Subitise.
- Link the number symbol (numeral) with its cardinal number value.
- Count beyond ten.
- Compare numbers.
- Understand the 'one more than/one less than' relationship between consecutive numbers.
- Explore the composition of numbers to 10.
- Automatically recall number bonds for numbers 0–5 and some to 10.
- Select, rotate and manipulate shapes to develop spatial reasoning skills.
- Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.
- Continue, copy and create repeating patterns.
- Compare length, weight and capacity.