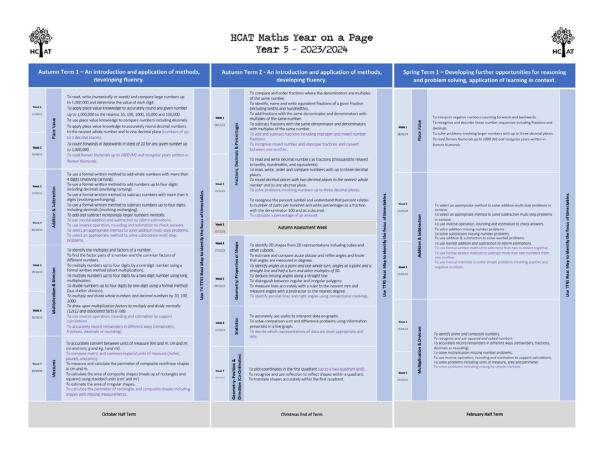




At West Meadows Primary School, we endeavour to teach Maths so children are taught to apply their knowledge and skills to a range of practical, real life contexts, to ensure their learning is both purposeful and meaningful. Underpinning this is the requirement for fluency, which is a whole-school focus. Skills are linked and taught together to maximise teaching and learning time to give context to learning.

Our teaching is based on the recommended National Curriculum, which has been personalised to meet the needs of our learners. 'Maths Year on a Page' has been developed for each individual year group to ensure pace and progression across school. Sitting behind these are our 'Curriculum Guides', which aim to support key subject knowledge, address common misconceptions as well as make links with other maths concepts to support an integrated approach.



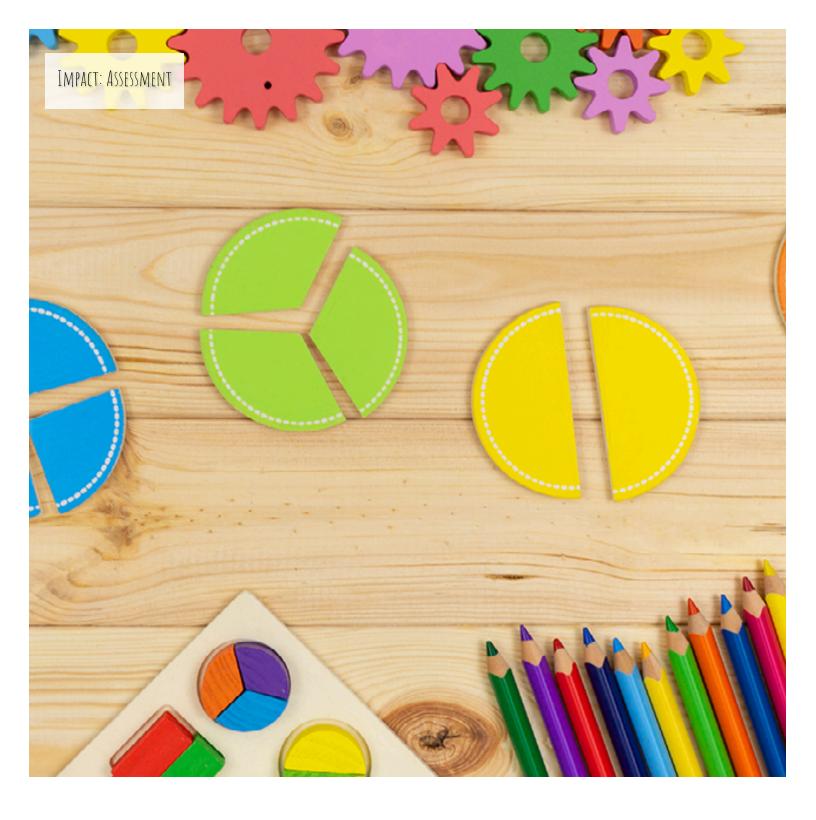
HCAT Maths Year on a Page Document





The Accelerated Learning Cycle, based on the work of Alastair Smith, is applied in all lessons. It stems from the idea of a supportive and challenging learning environment. Implementation of accelerated learning, supported by EEF metacognition research, has ensured the pace of learning is appropriate and has enabled pupils to secure rapid and sustained progress which has improved outcomes and standards within each lesson.

Within maths sessions, adaptive teaching is effective through the use of progressive and open-ended problems. Pupils are provided with the opportunity to move through carefully selected tasks starting at the level most appropriate to their starting point. Activities are adapted to meet the needs of each individual child, with scaffolds and challenges available for children to use to guide their own learning journey. Through this adaptive approach, we aim to support pupils to take ownerships of their learning and develop independence.





Formative assessment is ongoing throughout each lesson. It judges progress and enables the teacher to make flexible adaptations to their planned teaching.

Effective formative assessment, daily marking and feedback and adult interaction within lessons is firmly embedded into our approach when teaching maths. All pupils are supported to develop, progress and move their learning forward through support, questioning and feedback. Pupils demonstrate the impact this has on improving their learning through editing and response.

The use of clear learning objectives and success criteria ensures pupils to understand their learning and become self-regulated learners who aspire to achieve to their full potential.

Maths is assessed by teachers who use the HCAT trackers for their year groups to allocate a level and next steps for each pupil. Cross moderation occurs in school to ensure moderation is carried out correctly.



Name	Class of			
		Mathematics: Assessme	nt Year 3	
Statements	5-10	11-22	23-33	34+
Attainment	Year 3 Emerging	Year 3 Developing	Year 3 Secure	Year 4 Emerging (GDS end of year)

	Year 3: Maths Assessment: 43 Statements			
	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.			
Number & Place Value	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).			
	Compare and order numbers up to 1000.			
	Identify, represent and estimate numbers using different representations.			
	Read and write numbers up to 1000 in numerals and in words.			
	Solve number problems and practical problems involving these ideas.			
Addition & Subtraction	Add and subtract numbers mentally, including: a three-digit number and ones;			
	Add and subtract numbers mentally, including: a three-digit number and tens;			
	Add and subtract numbers mentally, including: a three-digit number and hundreds.			
	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.			
	Estimate the answer to a calculation and use inverse operations to check answers.			
	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.			
Multiplication & Division	Recall and use multiplication and division facts for the multiplication tables: x3			
	Recall and use multiplication and division facts for the multiplication tables: x4			
	Recall and use multiplication and division facts for the multiplication tables: x8.			
	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know,			
	including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.			
	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling			
	problems and correspondence problems in which n objects are connected to m objects.			
	Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.			
	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators			
Fractions	Recognise and use fractions as numbers: unit fractions (numerator of 1) and non-unit fractions with small denominators.			
ridettoris	Recognise and show, using diagrams, equivalent fractions with small denominators.			
	Add and subtract fractions with the same denominator within one whole [for example,5/7 + 1/7 = 6/7].			
	Compare and order unit fractions, and fractions with the same denominators.			
	Solve problems that involve all of the above.			
	Measure, compare, add and subtract; lengths (m/cm/mm);			
	Measure, compare, add and subtract: mass (kg/g);			
Measurement	Measure, compare, add and subtract: volume/capacity (I/ml).			
	Measure the perimeter of simple 2-D shapes.			
	Add and subtract amounts of money to give change, using both £ and p in practical contexts.			
	Tell and write the time from: an analogue clock and 12-hour and 24-hour clocks;			
	Estimate and read time with increasing accuracy to the nearest minute			
	Record and compare time in terms of seconds, minutes and hours			
	Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.			
	Know the number of seconds in a minute and the number of days in each month, year and leap year			
	Compare durations of events [for example to calculate the time taken by particular events or tasks].			
	Tell and write the time from: an analogue clock, including using Roman numerals from I to XII.			
Geometry: Properties of shapes	Draw 2-D shapes and make 3-D shapes using modelling materials.			
	Recognise 3-D shapes in different orientations and describe them.			
	Recognise angles as a property of shape or a description of a turn.			
	Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a comple			
	turn; identify whether angles are greater than or less than a right angle.			
Statistics	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.			
	Interpret and present data using bar charts, pictograms and tables.			
	Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information present			

# Our Progressive Curriculum



## PROGRESSION THROUGH ADDITION

#### YEAR 2:

- Solve problems with addition using concrete objects and pictorial representations.
- Apply increasing knowledge of mental and
- Recall & use addition facts to 20 fluently, and
- derive and use related facts up to 100.

   Add numbers using concrete objects, pictorial representations, and mentally: a two-digit number and ones, a two-digit number and tens, two two-digit numbers and add three one-digit
- numbers.
   Show that addition of two numbers can be done in any order (commutative).
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations.

#### YEAR 4:

- Add numbers with up to 4 digits using the formal written methods of columnar addition where appropriate.
  - Estimate and use inverse operations to check
- answers to a calculation solve addition two-step problems in contexts,
- deciding which operations and methods to use and

#### YEAR 6:

- Use their knowledge of the order of operations to carry out calculations involving the four operations. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Solve problems involving addition, subtraction multiplication and division.
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate

#### YEAR 1:

EYFS:

double facts.

- Automatically recall number bonds up to 5 (including subtraction facts) and some number bonds to 10, including

different contexts, recognising when one quantity is greater than, less than or the

- Compare quantities up to 10 in

same as the other quantity.

- Read, write and interpret mathematical statements involving addition (+) and equals (=) signs.
- Involving addition (\*) and equals (\*) signs.

   Represent and use number bonds and related subtraction facts within 20.

   Add one-digit and two-digit numbers to 20 including zero.
- nects within 20.

  Add one-digit and two-digit numbers to 20 including zero.

  Solve one-step problems that involve addition using concrete objects and pictorial representations and missing number problems.



- Add numbers mentally, including: a three-digit number and ones, a three-digit number and tens and a three-digit number and hundreds.
- Add numbers with up to three digits, using formal written methods. - Estimate the answer to a calculation and use inverse operations to
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.



### YEAR 5:

- Add whole numbers with more than 4 digits, including using formal written methods (column addition).
- Add numbers mentally with increasingly large numbers.
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
  - Solve addition multi-step problems in contexts.
- deciding which operations and methods to use and why.