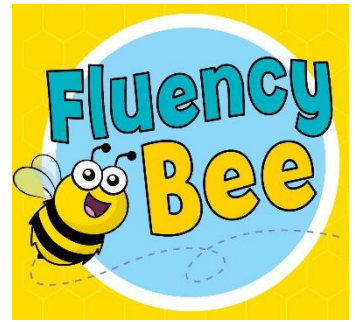


Hampton Hargate Primary School

Key Stage 1 and 2 Mathematics Fluency

White Rose Education Fluency Bee Programme



What is Fluency Bee?

Fluency Bee is a structured teaching programme designed to give children confidence with numbers through varied and frequent practice. It builds number sense and develops a range of core skills in maths.

The key to mathematical fluency

The best way to develop maths fluency is frequent practice. Fluency Bee consists of a daily 15-minute lesson separate from the main maths lesson. Fully animated PowerPoint slides bring core skills to life, emphasising key learning points and highlighting important connections.

Fun and engaging

Fluency Bee provides a hands-on and practical approach to number sense. There are lots of games and activities embedded in the teaching slides. Frequent, fun and varied practice helps core skills become embedded.

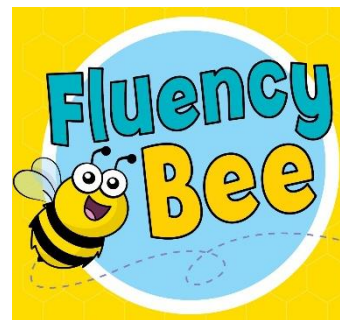
Concrete – pictorial – abstract (CPA)

The programme uses a CPA approach throughout to develop a secure understanding of mathematical concepts. Concrete manipulatives and pictorial representations are used to support children to make links, build visual images and make sense of abstract calculations.

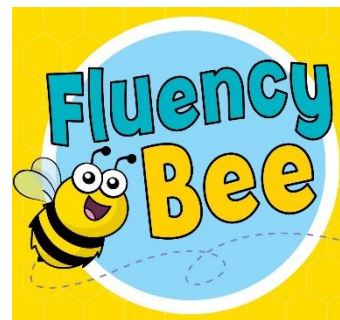
Mathematical talk and reasoning

Frequent opportunities for mathematical talk are provided. Familiar characters encourage children to explore common misconceptions and explain their reasoning.

- Fluency Bee is used flexibly depending on the needs of the children, either with the whole class or small groups of targeted children to build confidence with number.
- There are frequent opportunities for hands-on activities, using concrete manipulatives alongside the teaching slides.
- Stem sentences feature throughout to support children in using the correct mathematical language.
- Each small step has an optional follow-on task for extra fluency practice, to build confidence and to assess understanding.



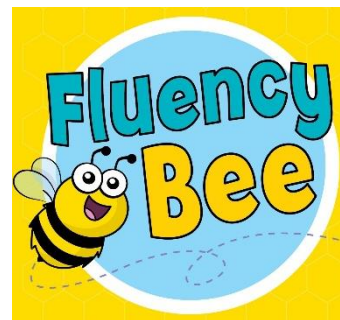
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Additive Factual Fluency	Composition of numbers to 5	Composition of numbers to 20	Place value within 100	Secure and maintain fluency in addition and subtraction through continued practice		
	Composition of numbers to 10	Key number facts to 20	Key number facts within 100			
	Key number facts within 10	Additin and subtraction through 10	Related facts and mental strategies			
	Calculate with numbers to 20 and bridge through 10	Structure of numbers to 100				
Multiplicative Factual Fluency	Counting in equal groups of 10, 5 and 2	Multiplicaiion and related division facts 2, 5 and 10 times tables	Revisit 2, 5 and 10 times tables	Revisit 2, 5, 10, 4 and 8 times tables and explore links between them	Secure and maintain fluency in all multiplication tables and corresponding division facts through continued practice	
			3, 4 and 8 times tables in depth	3, 6 and 9 times tables in depth		
				7, 11 and 12 times tables in depth		
				Consolidate facts, including 1 and 0 times tables		



Year 1 overview



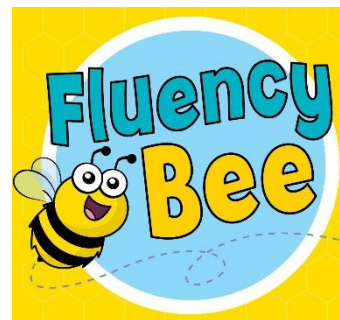
Stage 1						Stage 2		
Block 1 Perceptual subitising	Block 2 Conceptual subitising	Block 3 Composition to 5	Block 4 Comparison to 5	Block 5 1 more (within 5)	Block 6 1 less (within 5)	Block 1 Composition of 6 and 7	Block 2 Composition of 8 and 9	
Stage 2		Stage 3						
Block 3 Composition of 10	Block 4 Comparison to 10	Block 1 Introduction to addition and subtraction	Block 2 1 more (within 10)	Block 3 1 less (within 10)	Block 4 Add and subtract with 0	Block 5 Odd and even numbers	Block 6 Doubles to 10	
Stage 3			Stage 4			Stage 5		
Block 7 Add 2	Block 8 Subtract 2	Block 9 Final facts	Block 1 Ten and a bit 11-15	Block 2 Ten and a bit 16-20	Block 3 Comparison to 20	Block 1 Count in 10s	Block 2 Count in 5s	Block 3 Count in 2s



Year 2 overview



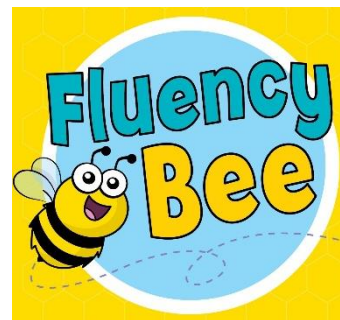
Stage 1							Stage 2		
Block 1 6 and 7	Block 2 8 and 9	Block 3 10	Block 4 Comparison to 10	Block 5 Addition and subtraction	Block 6 Ten and a bit	Block 7 Comparison to 20	Block 1 1 more (within 20)	Block 2 1 less (within 20)	Block 3 Make connections
Stage 2					Stage 3				
Block 4 Odd and even	Block 5 Doubles to 20	Block 6 Near doubles	Block 7 Add 2	Block 8 Subtract 2	Block 1 Add through 10	Block 2 Subtract through 10	Block 3 Bonds to 20		
Stage 4		Stage 5							
Block 1 How many?	Block 2 Comparison to 100	Block 1 Introduction to multiplication and division	Block 2 The 2 times-table	Block 3 The 10 times-table	Block 4 The 5 times-table				



Year 3 overview



Stage 1			Stage 2			
Block 1 How many?	Block 2 100	Block 3 Comparison to 100	Block 1 Add and subtract 1s	Block 2 Add and subtract 10s	Block 3 Add through 10s	Block 4 Subtract through 10s
Stage 3			Stage 4			
Block 1 Bonds to 100	Block 2 Complements to 100	Block 3 Doubles to 100	Block 1 The 2 times-table	Block 2 The 10 times-table	Block 3 The 5 times-table	
Stage 4	Stage 5					
Block 4 2s, 5s and 10s	Block 1 The 3 times-table	Block 2 The 4 times-table	Block 3 The 8 times-table	Block 4 3s, 4s and 8s		



Year 4 overview



Stage 1			Stage 2		
Block 1 The 5 and 10 times-tables	Block 2 The 2, 4 and 8 times-tables	Block 3 2s, 5s, 10s, 4s and 8s	Block 1 The 3 times-table		
Stage 2			Stage 3		
Block 2 The 6 times-table	Block 3 The 9 times-table	Block 4 2s, 5s, 10s, 4s, 8s, 3s, 6s and 9s	Block 1 The 7 times-table		
Stage 3			Stage 4		
Block 2 The 11 times-table	Block 3 The 12 times-table	Block 4 All times-tables	Block 1 1 and 0	Block 2 Make links	Block 3 Consolidate facts