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.

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Mathematics Factual Fluency Progression

Key Stage 1 and 2 Overview

	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	Multiplicaion 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		

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Key Stage 1 Mathematics Fluency

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Year 1 Overview

Year 1 overview

Stage 1					
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)

Stage 2	
Block 1 Composition of 6 and 7	**Block 2** Composition of 8 and 9

Stage 2	
Block 3 Composition of 10	**Block 4** Comparison to 10

Stage 3					
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		
Block 7 Add 2	**Block 8** Subtract 2	**Block 9** Final facts

Stage 4		
Block 1 Ten and a bit 11–15	**Block 2** Ten and a bit 16–20	**Block 3** Comparison to 20

Stage 5		
Block 1 Count in 10s	**Block 2** Count in 5s	**Block 3** Count in 2s

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Year 2 Overview

Year 2 overview

Stage 1						
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

Stage 2		
Block 1 1 more (within 20)	**Block 2** 1 less (within 20)	**Block 3** Make connections

Stage 2				
Block 4 Odd and even	**Block 5** Doubles to 20	**Block 6** Near doubles	**Block 7** Add 2	**Block 8** Subtract 2

Stage 3		
Block 1 Add through 10	**Block 2** Subtract through 10	**Block 3** Bonds to 20

Stage 4	
Block 1 How many?	**Block 2** Comparison to 100

Stage 5			
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

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Key Stage 2 Mathematics Fluency

White Rose Education Fluency Bee Programme

Year 3 Overview

Year 3 overview

Stage 1		
Block 1 How many?	**Block 2** 100	**Block 3** Comparison to 100

Stage 2			
Block 1 Add and subtract 1s	**Block 2** Add and subtract 10s	**Block 3** Add through 10s	**Block 4** Subtract through 10s

Stage 3		
Block 1 Bonds to 100	**Block 2** Complements to 100	**Block 3** Doubles to 100

Stage 4		
Block 1 The 2 times-table	**Block 2** The 10 times-table	**Block 3** The 5 times-table

Stage 4
Block 4 2s, 5s and 10s

Stage 5			
Block 1 The 3 times-table	**Block 2** The 4 times-table	**Block 3** The 8 times-table	**Block 4** 3s, 4s and 8s

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Year 4 Overview

Year 4 overview

Stage 1		
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

Stage 2
Block 1 The 3 times-table

Stage 2		
Block 2 The 6 times-table	**Block 3** The 9 times-table	**Block 4** 2s, 5s, 10s, 4s, 8s, 3s, 6s and 9s

Stage 3
Block 1 The 7 times-table

Stage 3		
Block 2 The 11 times-table	**Block 3** The 12 times-table	**Block 4** All times-tables

Stage 4		
Block 1 1 and 0	**Block 2** Make links	**Block 3** Consolidate facts