Hampton Hargate Primary School

Key Stage 1 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.

September 2023

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			Stage	1					Ste	age 2	
Block 1 Perceptual subitising	ptual 2 9 9 9 Block 3				Block 5 1 more (within 5)	Block 1 less (within	- II	Comp	ck 1 osition and 7		Block 2 omposition of 8 and 9
St	age 2						Stage	e 3			
Block 3 Block 4 Composition Comparis of 10 to 10		rison	Block 1 Introduction to addition and	Bld 1 r (with	ock 2 nore nin 10)	Block 3 1 less (within 10)		Block 4 Add and	Block 5 Odd and even numbers		Block 6 Doubles to 1
	Stage 3				Sto	ige 4				Stag	e 5
Block 7 Add 2				Block 1 Ten and a 11–15	bit Ten d	ock 2 and a bit 6–20	Comp	ock 3 Darison D 20	Block 1 Count in 10s	Block Count 5s	

The programme is divided into 5 stages. Each stage consists of blocks which are divided into small steps. Wider blocks have more steps.

The programme is not tied to set term dates or weeks. It is ready to pick up and start at any point throughout the year to meet the needs of your children.

If you feel that your children need to spend longer than one lesson on a step, that is fine, just continue onto the next step when they are ready.

Stage 1 and **2** explore composition of numbers to 5 and 10. This builds the foundations for the key facts within 10 which are explored in **Stage 3**.

Stage 4 and **Stage 5** build the foundations for the four operations in Year 2.

Stage 4 focuses on developing children's understanding of the teen numbers which will support them to calculate with numbers to 20 and bridge through 10.

Stage 5 looks at counting in equal groups to support children's later work on multiplication and division.

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Stage 1 explores the composition of numbers to 20 and the related addition and subtraction fact families.

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Stage 1										Stage 2				
Block 1 5 and 7			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 1 less (within 2	Maka	Block 3 Make connections	
			5	Stage 2	2						Stage	3		
Block 4 Odd and even [Block 5 Block 5 Dubles to 20 Block 5 Nec doub		Block 7 Add 2		Block 8 Subtract 2		Block 1 Add through 10		Block 2 Subtract through 10		Block 3 Bonds to 20	
	Stag	ge 4							Sto	age 5				
Block 1 Con		Block 2 Compariso to 100	I	Block 1 introduction to ultiplication a division		Block 2 The 2 times-table			Block 3 The 10 times-table		Block 4 The 5 times-table			

Stage 2 looks at number facts to 20, securing and building on the number facts to 10 explored in Year 1. Links between related facts such as 5 + 2 = 7 and 15 + 2 = 17 are made explicit.

Stage 3 focuses on adding and subtracting through 10.

Stage 4 builds an understanding of the structure of numbers to 100 which will support them to consolidate and apply related facts when calculating with larger numbers in year 3.

Stage 5 looks at multiplication and the related division facts for the 2, 10 and 5 times-tables.