

Guidance Year 1



The 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 is an easy way to build number sense and develop 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, with teaching notes that emphasise key learning points and highlight important connections.

How Fluency Bee can work for you

Fluency Bee can be used flexibly depending on the needs of your children. It is suitable for use with the whole class or small groups of targeted children to build confidence with number.

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.

Year 1 overview

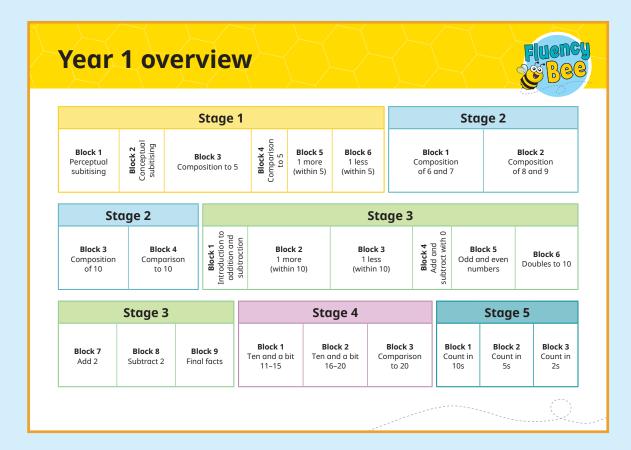


Stage 1							
Block 1 Perceptual subitising	Block 2 Conceptual subitising	Block 3 Composition to 5	Block 4 Comparison to 5	Block 5 1 more (within 5)	Block 6 1 less (within 5)		

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

Stage 2	Stage 3					
Block 3 Block 4 Composition Comparison to 10	Introduction to addition and subtraction (within 10)	Block 3 1 less Add and Add and	Block 5 Odd and even numbers	Block 6 Doubles to 10		

Stage 3	Stage	Stage 5			
Block 7 Block 8 Block 9 Add 2 Subtract 2 Final facts	Block 1 Block Ten and a bit Ten and a 11–15 16–20	a bit Comparison	Block 1 Count in 10s	Block 2 Count in 5s	Block 3 Count in 2s



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**.

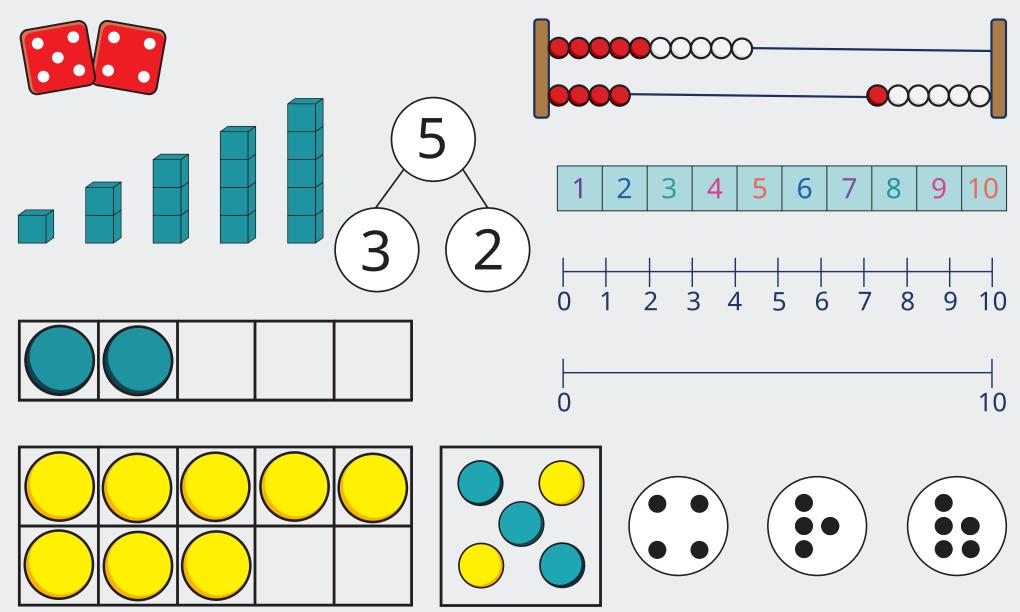
Stage 4 and **Stage 5** build the foundations for the four operations in Year 2.

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.

Key resources and representations

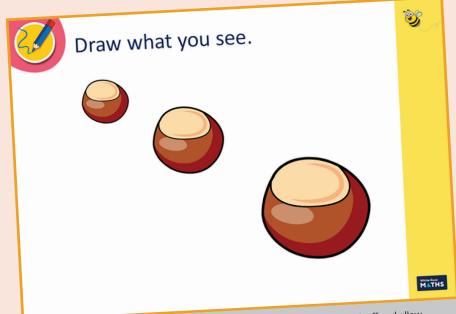




Guidance for teachers



Each block starts with a teacher guidance page.
This provides an overview of the content of the block along with some guidance for teaching. Key vocabulary and common misconceptions or areas potentially requiring additional support are highlighted.



Provide children with whiteboard and pens. Show each image quickly then click off and allow children time to draw what they could see before clicking back onto the image to check. Children to draw what they can see and where they see it on their whiteboards.

Guidance for teachers

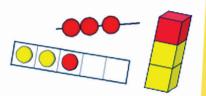
3

In this block, the focus is on perceptual subitising. Perceptual subitising is instantly recognising a small group of objects without counting them. Young children can perceptually subitise up to 5 objects.

The first two sessions check that children are confident with subitising to 3, before introducing 4 and 5 objects. The first click of each slide will show the amount of circles or objects to be subitised, the next click will remove the image. It is best to show the quantities quickly and then hide them to ensure that the children have enough time to subitise but not enough time to count the objects.

Children will start by identifying simple geometric shapes displayed in regular patterns, before moving onto more irregular patterns using objects varying in size, shape and orientation.

Where appropriate, additional guidance notes can be found beneath key slides.



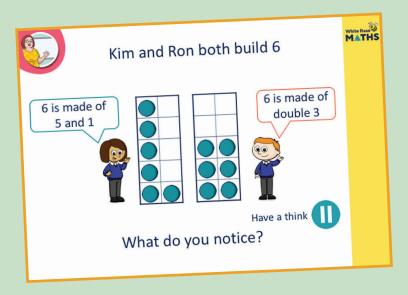
MATHS

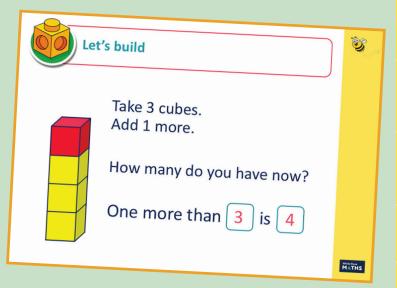
Additional guidance can be found in the notes beneath key slides where needed.

Teaching slides



There are frequent opportunities for hands-on activities. The cube symbol indicates an opportunity to use concrete manipulatives alongside the teaching slides.



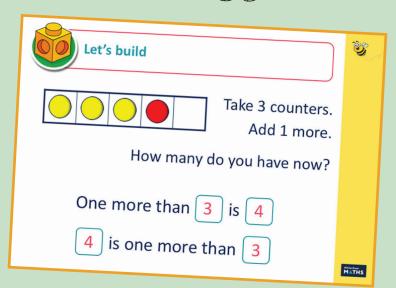


Familiar characters support children to discuss key representations and common misconceptions.



Stem sentences feature throughout to support children in using the correct mathematical language.

They turn pink to encourage the children to say them together.



Symbols



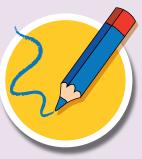
Symbols are used throughout to support you in getting the most out of the teaching slides.



Teacher-led slides



Opportunity to use concrete resources



Opportunity to draw or write



Links to songs or rhymes



Opportunity to talk and compare reasoning



A question which may be structured differently, require a different approach or explore a common misconception.

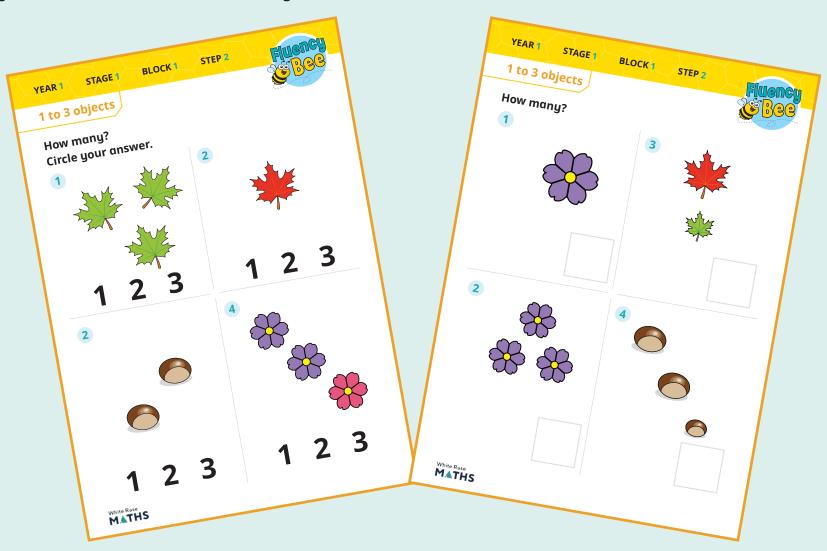


Opportunity to investigate

Optional follow-on tasks



Each small step has an optional follow-on task for extra fluency practice. Two pages of fluency questions help build confidence and allow you to assess children's understanding.



Meet the characters



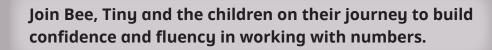
You will find all the familiar White Rose characters plus a brand new one.



Tiny



Kim



Jo

Sam