## 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 |  |  |  |  |  | Stage 2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Block 1 Perceptual subitising |  | Block 3 <br> Composition to 5 |  | Block 5 <br> 1 more (within 5) | Block 6 <br> 1 less <br> (within 5) | Block 1 Composition of 6 and 7 | Block 2 Composition of 8 and 9 |


| Stage 2 |  |
| :---: | :---: |
|  | Block 3 <br> Composition <br> of 10 |
| Block 4 <br> Comparison <br> to 10 |  |

Stage 3

|  | Block 2 <br> 1 more (within 10) | $\begin{gathered} \text { Block } 3 \\ 1 \text { less } \\ \text { (within 10) } \end{gathered}$ |  | Block 5 Odd and even numbers | Block 6 <br> Doubles to 10 |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Stage 3 |  |  | Stage 4 |  |  | Stage 5 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Block 7 <br> Add 2 | Block 8 <br> Subtract 2 | Block 9 <br> Final facts | Block 1 <br> Ten and a bit 11-15 | Block 2 <br> 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 2 s |

## Year 1 overview



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 $\mathbf{2}$ 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



| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



## 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.

## Guidance for teachers

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

The first two sessions check that children are confident with subitising to 3, before circles or objects to be subitised, the click of each slide will show the amount of show the quantities quickly and then hide them to ensure the image. It is best to enough time to subitise but not enough time to count the that the children have Children will start by identifying simple objects.
patterns, before moving onto more irregular getric shapes displayed in regular shape and orientation.
Where appropriate, additional guidance notes can be found beneath key slides.


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

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


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

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


8

Take 3 cubes. Add 1 more.

How many do you have now?
One more than 3 is 4

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


Take 3 counters. Add 1 more.
How many do you have now?
One more than 3 is 4
4 is one more than 3

## 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.

Join Bee, Tiny and the children on their journey to build confidence and fluency in working with numbers.

