# Sequence of lessons for KS1 and KS2 (for each mathematics topic)



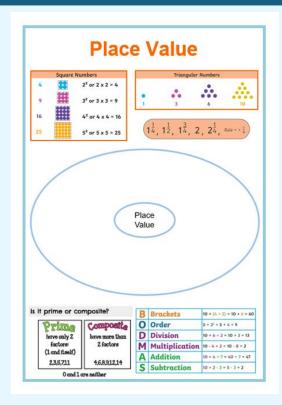
Cover sheet with key knowledge for new topic.

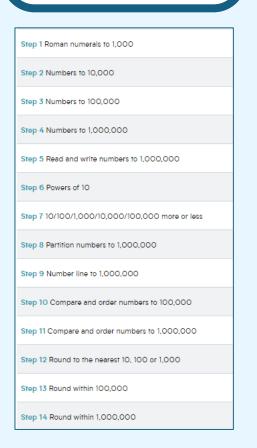
Pupils complete a circle map to identify and discuss key vocabulary linked to the topic (verbal for Y1 in Autumn term).

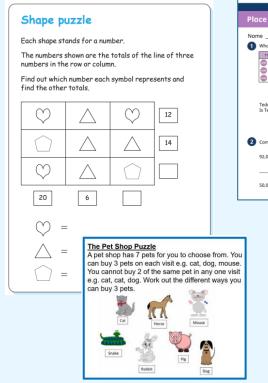
Developing fluency, reasoning and problem solving for each small step in learning.

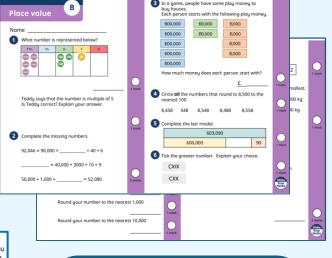
• Arithmetic test every 2 weeks.

 Non-routine problem-solving every week. End of topic assessment. Children self-assess their own understanding of the topic.









Big Maths tests completed 3 times per week

## What does maths look like in Nursery?



- Strong focus on number.
- Daily practice of counting skills and reciting numbers up to and beyond 5.
- Regular practice with one-to-one correspondence matching each object to a number, counting each object once, and only once.
- Regular practice with subitising developing children's ability to look at a small set of objects and instantly know how many there are without counting them.
- Developing children's ability to use mathematical and positional language.

#### Daily maths meet

Daily rehearsal of vocabulary and number skills linked to:

- Days of the week.
- Months of the year.
- Creating a tally linked to the register.

## What does a maths lesson look like in Reception?



Teacher shares the learning objective with children.\*

Whole class teaching and teacher modelling

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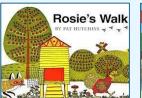
Children are encouraged to access the continuous provision linked to maths learning objective.

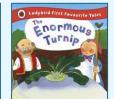
Children complete the task in their books.\*\*

Whole class / group practical activity Class split into 5 groups: 3 independent; 2 teacher/TA led.

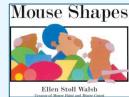
\*\*Teacher uses pink highlighter to prompt a child to correct their work or to provide a challenge question to take the child's learning deeper.

Big Maths 3x per week





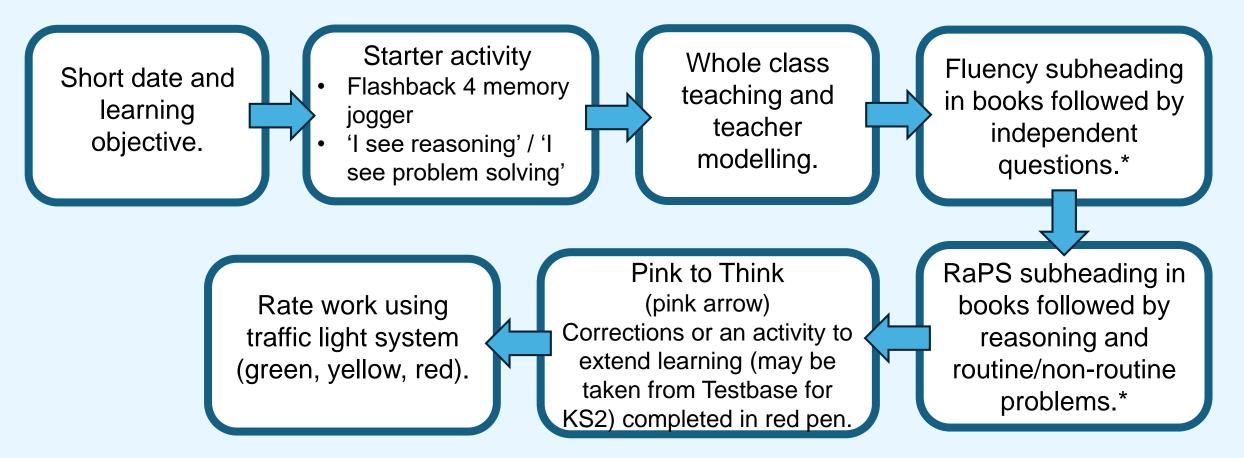




\*During each maths topic, children's books are used to help pupils relate mathematics to their own lives and support them in visualising abstract maths ideas.

## What does a maths lesson look like in KS1/KS2?





<sup>\*</sup>Mini-plenaries are used at key points during the lesson to identify children who are struggling. These children will receive additional support in an intervention group.

<sup>\*</sup>Children who grasp a concept quickly will be further stretched through challenge questions and activities to take their learning deeper.

#### Starter activities for KS1 and KS2

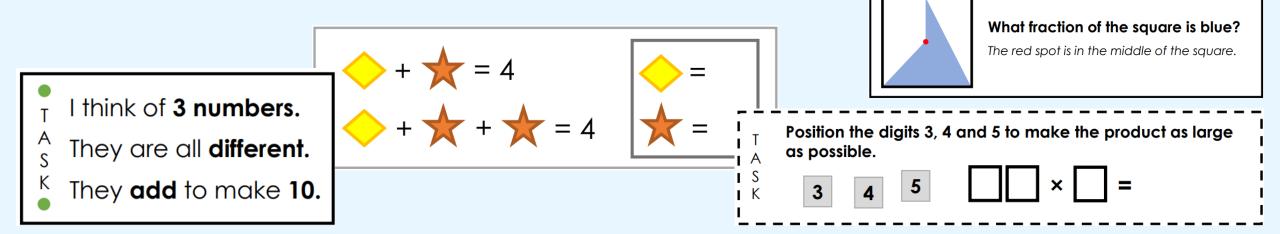
#### Monday, Wednesday and Friday

- Flashback 4 memory jogger:
  - 1 question from last lesson
  - 1 question from last week
  - 1 question from 2/3 weeks ago
  - 1 question from last term/last year

#### Flashback 4 Order the numbers from smallest to Flashback 4 2) What is the difference between 11 and -9? Flashback 4 What number is shown? $10 \times 7$ 10,000,000 Which shape has the smaller area? How many bees are there? \*\*\* Write an addition to check the answer to r 2 minutes? 8,842 - 4,290 = 4,552Find the difference between 482 and 1,889 +50+64,756 = 3,000 +

#### Tuesday and Thursday

'I see reasoning' / 'I see problem solving' starter activity



#### What does non-routine problem-solving look like at St Josephs?



- 'I see problem-solving' activities used twice per week as starter activities in KS1/KS2.
- Routine and/or non-routine problems are used in the 'RaPS' part of each maths lesson in KS1/KS2.
- One lesson per week dedicated to solving a non-routine problem.
- Children use concrete/pictorial resources to support them during problem-solving.
- Children are encouraged to monitor their thinking and the effectiveness of their strategies.
- Non-routine problems sourced from NRICH,
  National Strategies resources, Classroom Secrets
  (discussion problems) and Third Space Learning resources.

