

# Reception

## Autumn Term

# Parent Pack

Focus: Numbers 1 - 6

This pack includes:

- An overview of Mathematics Mastery
  - Big pictures
  - Key vocabulary
- Key representations for numbers 1 – 6
  - Number games to play at home



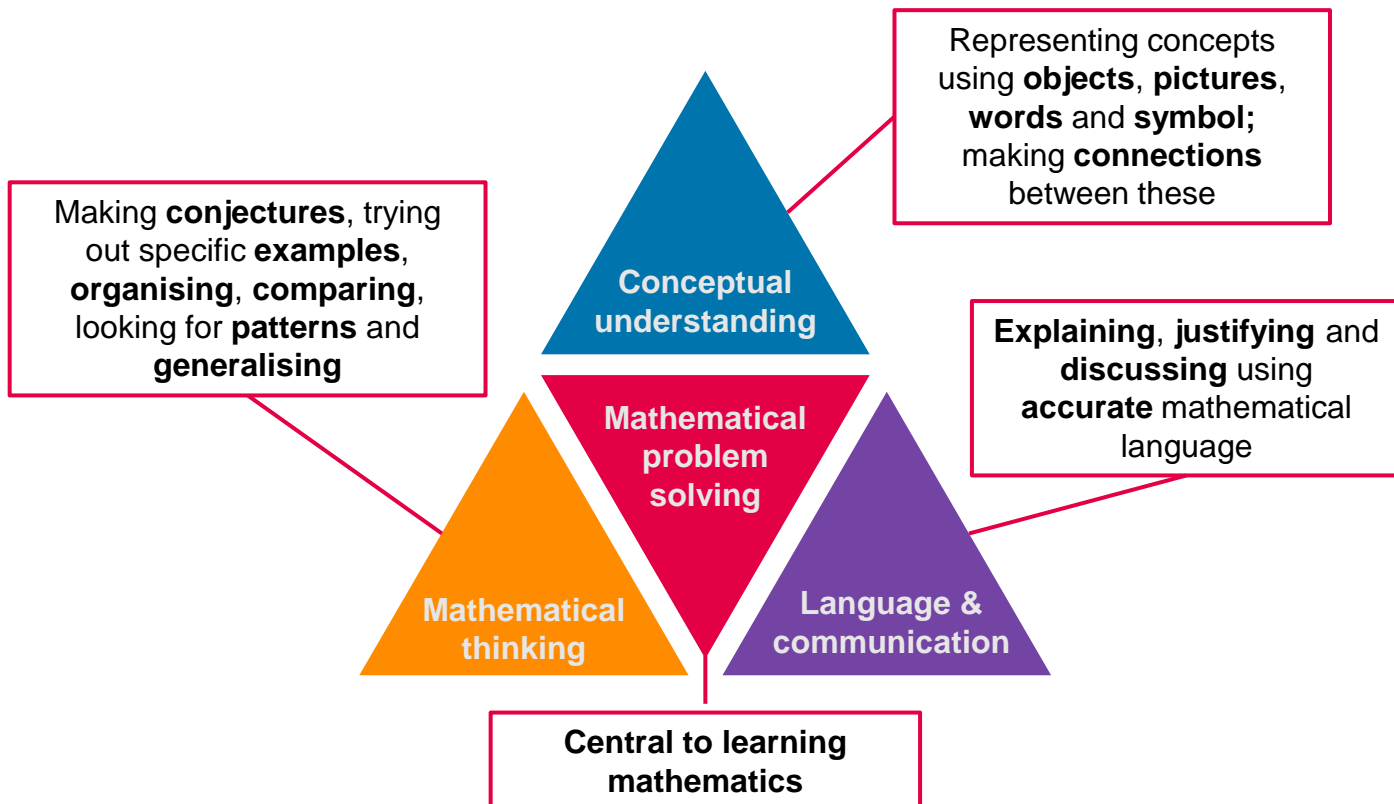
Mathematics  
Mastery

# Mathematics Mastery

## What is 'Mastery'?

The 'mastery approach' to teaching mathematics is the underlying principle of Mathematics Mastery. Instead of learning mathematical procedures by rote, we want your child to build a deep understanding of concepts which will enable them to apply their learning in different situations. To achieve this we aim to develop pupils'

**Conceptual Understanding, Mathematical Thinking and Language and Communication.** (See diagram below).



## Success for all

At school we believe **all** pupils can achieve success in maths. We encourage pupils to have a 'growth mindset' – a belief that effort leads to success and that challenges are opportunities to learn.

Here are a few tips to encourage your children at home with maths:

- ✓ Talk to your child about everyday maths
- ✓ Play games with them
- ✓ Value mistakes as learning opportunities
- ✓ Recognise that there is more than one way to work things out.
- ✓ Praise your child for effort over outcome.
- ✓ Avoid saying things like "I'm useless at maths".

# Autumn focus: Numbers 1- 6

## Reception - Autumn Curriculum Map

Early mathematical experiences	Pattern and early number	Numbers to 6	Addition and subtraction	Measure	Shape and sorting	Calendar and time
<ul style="list-style-type: none"> <li>Classifying objects based on one attribute</li> <li>Comparing objects and sets</li> <li>Ordering objects and sets</li> </ul>	<ul style="list-style-type: none"> <li>Recognise, describe, copy and extend colour and size patterns</li> <li>Count and represent the numbers 1 to 3</li> <li>Estimate and check by counting</li> </ul>	<ul style="list-style-type: none"> <li>Count up to six objects</li> <li>One more or one fewer</li> <li>Order numbers 1 – 6</li> <li>Conservation of numbers within 6</li> </ul>	<ul style="list-style-type: none"> <li>Count up to six objects</li> <li>One more or one fewer</li> <li>Order numbers 1 – 6</li> <li>Conservation of numbers within 6</li> </ul>	Estimate, order, compare, discuss and explore capacity, weight and lengths	<ul style="list-style-type: none"> <li>Describe and sort 3-D shapes</li> <li>Describe position accurately</li> </ul>	<ul style="list-style-type: none"> <li>Days of the week and seasons</li> <li>Sequence daily events</li> </ul>

This term one of our key focusses in Reception is developing understanding of numbers 1-6. Below are some of the key small steps pupils will be learning about:

- Count 1, 2 and 3 reliably (using objects, images, sounds)
- Create representations for numbers 1, 2 and 3.
- Count numbers 1 – 6 reliably
- Create representations for numbers 1 – 6
- Place numbers 1 – 6 in order
- Recognise numerals 1 – 6
- Explore one more and one less
- Addition and subtraction of numbers 1 – 6
- Understand the concept of zero (0)

### Key vocabulary for Reception – Numbers 1 – 6

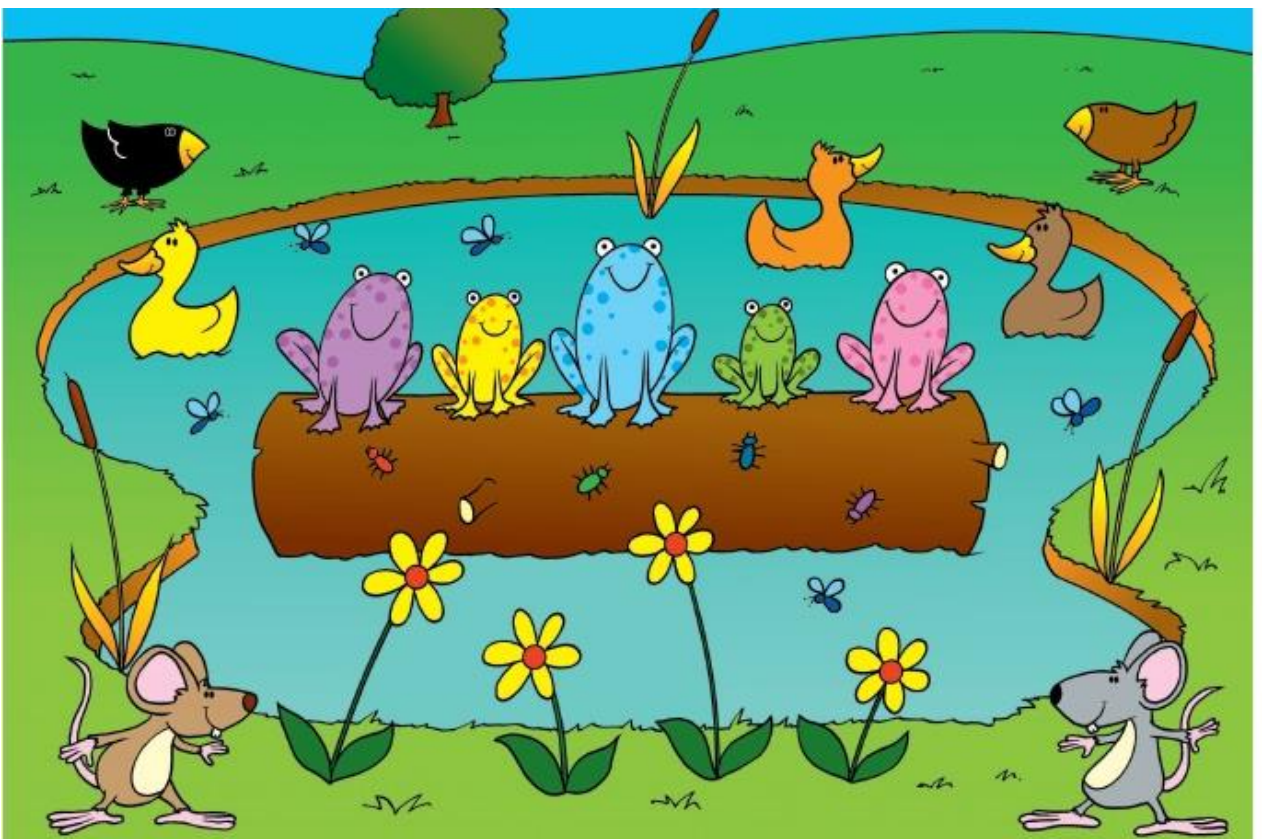
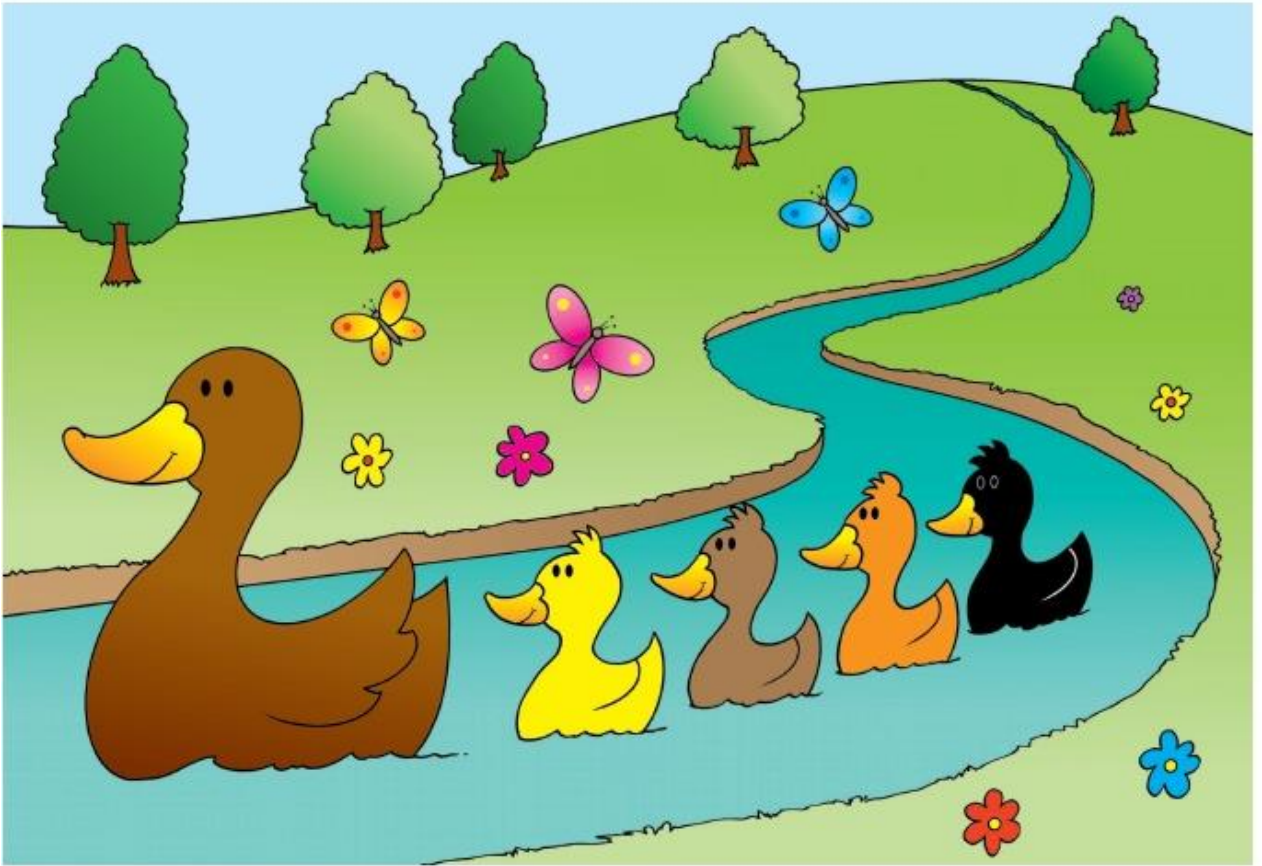
one (1)   two (2)   three (3)   four (4)   five (5)   six (6)   how many   count  
 more   fewer   greater   less   same   different   next   before   after  
 zero (0)   none   nothing   part   whole   is equal to (=)   plus   altogether  
 subtract   minus

The five frame is used to support early number skills. (Once pupils have a key understanding of numbers 1 – 5, they will move on to using a ten frame.)

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# Big Pictures

What maths can you see? Discuss with your child at home using the key vocabulary on the previous page.



# Try this at home – workshop games

## Flip and Create

2-4 players

one two three four five six more fewer less

**What you need:** 12 dot cards with a variety of dot patterns representing numbers 1 to 6 (see the following page) and counters/buttons/stones/cubes etc. (6 per person required).

**How to play:** Have the cards in a pile face down. The first player flips over one card. The rest of the players then use counters to replicate the arrangement of dots on his/her card and says the number out loud. The dealer checks the results. The next player then flips over the next card and places it on top of the previous card. The players rearrange their counters. This continues until all the cards are used.

## Variations

**More or fewer:** Each child can predict aloud whether the new card has more, fewer or the same number of dots as the previous card. The prediction is checked by the dealer, by observing whether counters need to be taken away or added.

**Create your own dot cards:** Change the arrangements or increase/decrease the number of dots on the cards.

## Pairs

2 players

**What you need:** 12 dot cards with a variety of dot patterns representing numbers 1 to 6 (see the following page.)

**How to play:** Spread all the cards out face down. The first player turns over any two cards. If they are a pair (i.e. have the same number of dots), the player removes the cards and scores a point. If they are not a pair, both cards are turned back down in their places. The second player then turns over two cards and so on. When all the cards have been matched, the player with more pairs wins.

## Variations

1. Increase the number of pairs of cards used.
2. Use a greater number of dots on the cards.
3. Pair a dot card with a numeral card.

one two three four five six

# Resource: Dot cards

