

EYFS Maths Talk

Vision

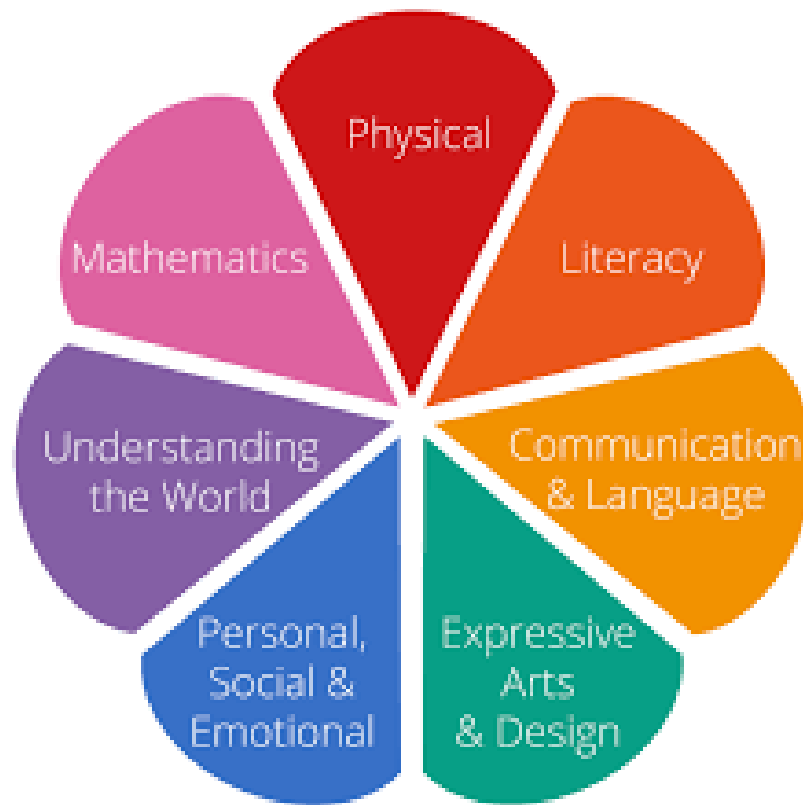
“Life in all its fullness”

Our vision guides us in all that we hope to be, enabling every part of our community to grow and develop. This means growing in body, mind and spirit in order to flourish and experience the joy and hope of, ‘life in all its fullness’ (John 10.10)

Tonight's Meeting

- ▶ The EYFS Framework
- ▶ Long Term Plans
- ▶ Teaching for Mastery in EYFS
- ▶ The Role of Stories
- ▶ Helpful Resources

The EYFS Framework



The EYFS Framework

By the end of Reception, to achieve the Early Learning Goal (ELG) for mathematics, children should be able to:

Numerical Pattern

- Have a deep understanding of number to 10, including the composition of each number.
- Subitise (recognise quantities without counting) up to 5.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

Number

- Have a deep understanding of number to 10, including the composition of each number.
- Subitise (recognise quantities without counting) up to 5.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

Long Term Plan

Long Term Plan

Topic Progression		
Autumn 1	Spring 1	Summer 1
Number Place Value – Numbers to 6 (6 weeks) Addition and Subtraction – Sorting (2 weeks) (7 weeks)	Number Addition and Subtraction – Numbers to 5 (2 weeks) Place Value – Numbers to 10 (4 weeks) (6 Weeks)	Number Consolidation and retrieval (2 weeks) Number Multiplication and Division – Numerical Patterns (3 weeks) (5 Weeks)
Autumn 2	Spring 2	Summer 2
Number Place Value – Comparing Groups (2 weeks) Addition and Subtraction – Change within 5 (3 weeks) Geometry Exploring patterns (2 weeks) (7 Weeks)	Number Addition and Subtraction – Numbers to 10 (3 weeks) Geometry Exploring patterns, position and direction (3 weeks) (6 Weeks)	Number Consolidation and retrieval (2 weeks) Measurement Time (2 weeks) (7 Weeks)

Teaching for Mastery in EYFS

Teaching for Mastery

What research tells us...

What predicts mathematical success?

In the early years:

- ▶ Support from parents and some home learning (EPPE)
- ▶ A balance of adult and child-led activities (REPEY)
- ▶ Development of **early number sense** (EEF)

Teaching for Mastery

How do children develop number sense?

Routines -

Self registration

Snack time

Tidy up time

Games - tracks, collecting, targets, hidden numbers

Number rhymes, books and stories

Problem solving and pattern spotting

Playfulness - e.g. deliberate mistakes

Teaching for Mastery

Larger numbers provide experience but a deep understanding of numbers to 10 is more important.

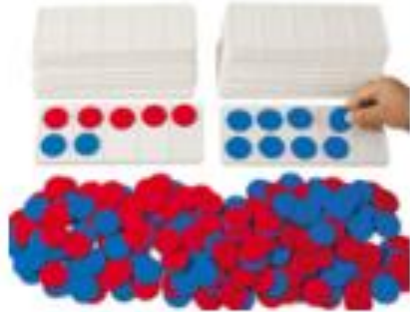


Teaching for Mastery



Teaching for Mastery

Manipulatives



Loose parts



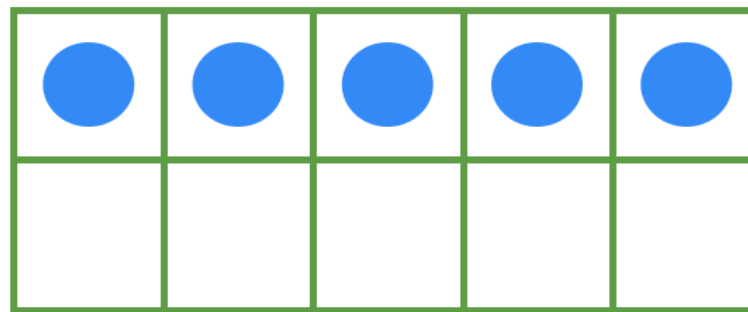
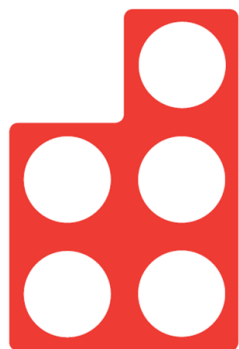
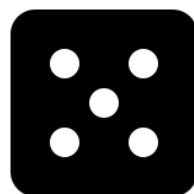
*Tools with
standard/non-
standard units*

Manufactured



Teaching for Mastery

Representations



Teaching for Mastery

Abstract

$$3 + 5 = 8$$

$$2 \times 2 = 4$$

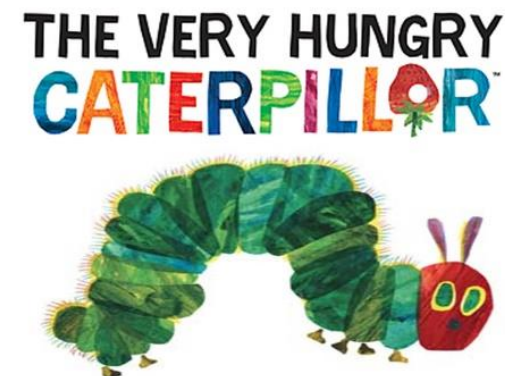
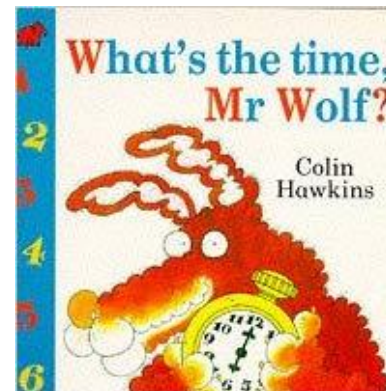
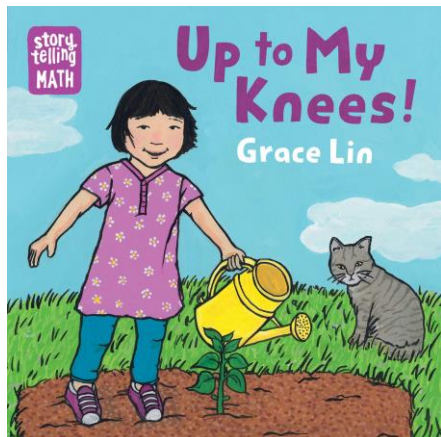
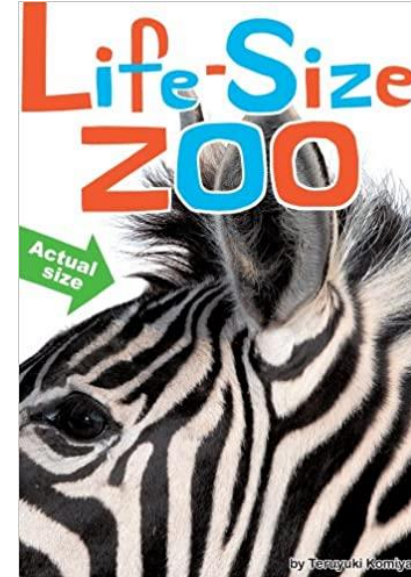
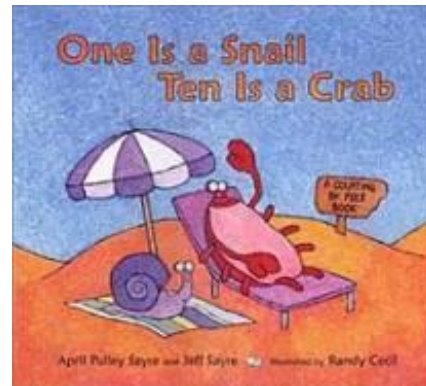
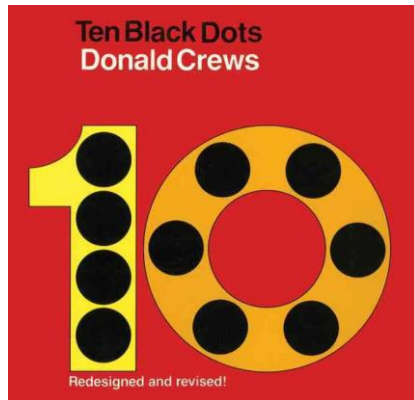
$$6 - 3 = 2$$

$$4 \div 2 = 2$$

The Role of Stories

Teaching for Mastery

<https://www.mathsthroughstories.org>

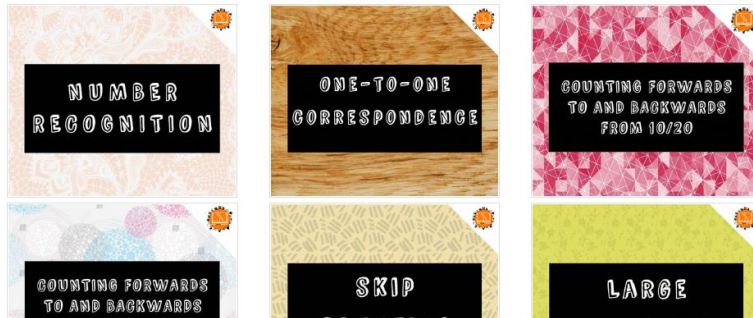


Helpful Resources

Helpful Resources

<https://www.mathsthroughstories.org>

NUMBERS (Counting and Place Value)



<https://www.bbc.co.uk/bitesize/subjects/zhtf3j6>

Games >



Game - See the Amount



Game - Bud's Number Garden

<https://www.bbc.co.uk/cbeebies/shows/numberblocks>

<https://nrich.maths.org/13372>

Early Years Activities - Number



Counting Collections

Age 3 to 5

In this activity, children choose collections of items to count and are supported as they find way to keep track of, and record, their counting.



Baskets

Age 3 to 5

This activity encourages children to practise their sharing and counting skills by putting small objects into some baskets.



Number Talks

Age 3 to 5

In this task, children have the opportunity to talk about what they see when they look at a number representation.

