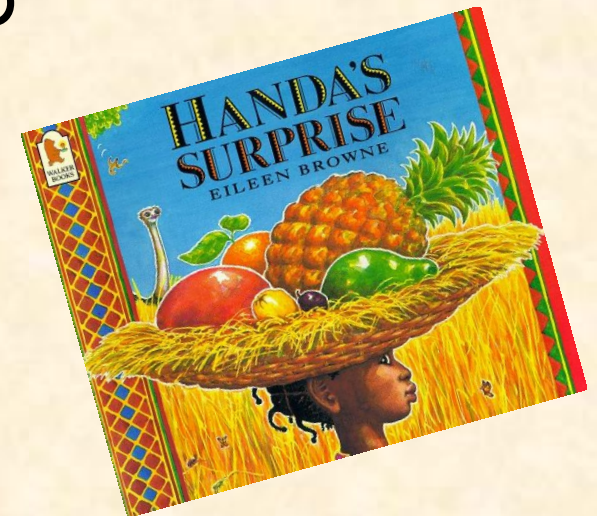
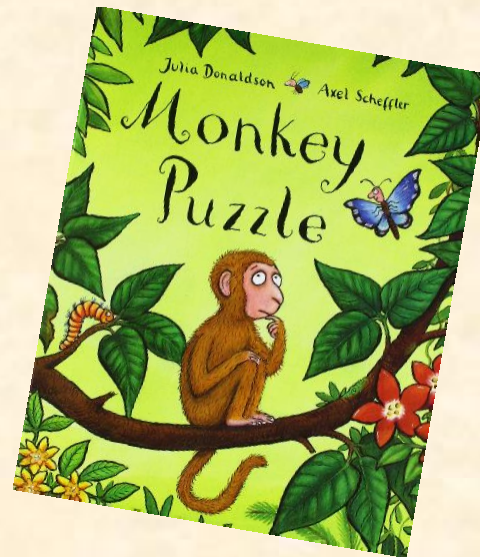
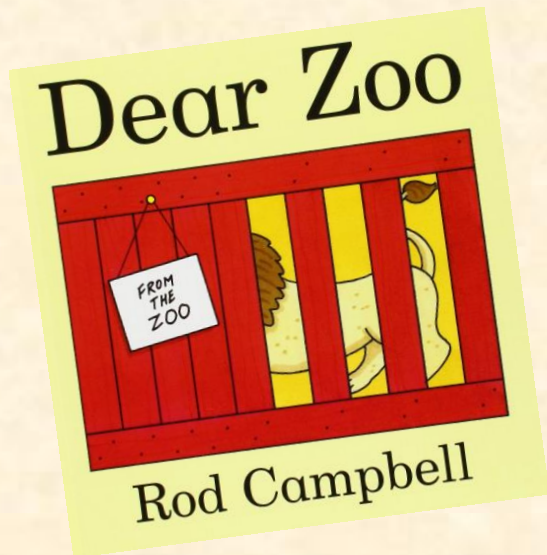


Maths through Stories

Thornton Heath Nursery School
November 18th 2015



Aims & Objectives

- To promote the use of mathematical language in story telling
- To recognise the breadth of mathematical concepts in story books
- To encourage children to take concepts introduced through stories into the wider environment

Examples of maths through stories

- Handa's Surprise
- Monkey Puzzle
- My Cat likes to hide in boxes
- Where's my Teddy?
- Dear Zoo

Areas covered by each story

Handa's Surprise	1-1 counting Sequencing story Pattern subtraction
Monkey Puzzle	Size Pattern Number Addition
My cat likes to hide	Solid shape Sequencing
The Doorbell rang	Counting beyond 10 Sharing out, Estimating
Where's My Teddy	Comparison of size
Dear Zoo	Shape , size and spatial awareness

Handa's Surprise

- Original story and props used to consolidate language relating to prepositions e.g. "Which animal came next?"
- using real fruits or magnetic props to link the physical action of subtraction with the abstract
- Using mathematical language as part of the activity e.g. how many left? How many "altogether"

The Doorbell Rang

Pat Hutchins

- Counting beyond 10
- 'sharing out' 12 items between 2,4,6 and 12 children
- Estimating quantities
- Using focused vocabulary such as 'more than, less than, enough, same, equal'

Where's My Teddy?

Jez Alborough

- Using focused vocabulary relating to size
- Comparing objects by size
- Extension activities included block play to create enclosures to fit the different characters

Dear Zoo

Rod Cambell

- Matching
- Turn taking lotto game
- Language relating to size and shape
- 3D shapes for putting the animals in
- Estimating and probability relating to size and shape

Monkey Puzzle

Joyce Dunbar

- Introducing the language of size- big, bigger, small, smaller
- Introducing the language of length-long, longer, short, shorter
- Extension activities including using tape measures for measuring toy animals

My Cat likes to hide in boxes

- Exploring solid shape
- Estimating what can fit and what can't
- Testing/trying out hypothesis
- Range of activities involved role play and small world play e.g. "Vets surgery"

Ideas for further development

- To continue to select books to represent different aspects of mathematics and to create magnetic props and 3D props
- In the future there is an intention to be able to share these resources with parents through workshops and a lending scheme

<u>Title</u>	<u>Mathematical Concept</u>
The shopping basket	Counting, subtracting, concept of 1 less
Kippers Toybox	Counting
Handas Surprise	Ordinal number, subtraction
Pardon? Said the giraffe	Comparative sizes
Where's my teddy	Concept of size
The bad tempered ladybird	Size, time
Mr wolf's week	Passing of time
My cat likes to hide in boxes	Solid shape
We're going on a bear hunt	Position, direction and movement
Eat up Gemma	Sorting, data handling
Dear Zoo	Size, shape
Elmer	Pattern
Harry and the robots	3D modelling