

Mathematics

Early Years Curriculum Plan

EYFS MATHS at Defford

Our Vision

Our Intent

Faith	Friendship	Fun	Learn	Grow
<ul style="list-style-type: none">• Believe in our abilities to problem solve, explore number in the world around us• Use our curiosity to explore number, shape and how it features in our lives	<ul style="list-style-type: none">• Explore and enjoy numbers with our friends through playful activities, relevant to life and learning	<ul style="list-style-type: none">• learning and playing with numbers• games and problem solving, exploring, working collaboratively and independently	<ul style="list-style-type: none">• Through playful activities learn about number facts and how these build the base for our future learning	<ul style="list-style-type: none">• Opportunities for challenge, to build on our knowledge and faith in our belief that we can solve problems, investigate and work systematically and accurately

MATHEMATICS – NUMBER/NUMERICAL PATTERNS – YEAR A – WILLOW – AUTUMN TERM – OUR COLOURFUL WORD
 TAKEN FROM WHITE ROSE MATHS SCHEMES OF LEARNING- JUST LIKE ME, LIGHT AND DARK

KNOWLEDGE, SKILLS AND UNDERSTANDING IN PRE-SCHOOL

• **Counting principles**

- 1:1 principles
- stable order principle
- cardinal principle
- abstract principle
- order-irrelevance principle

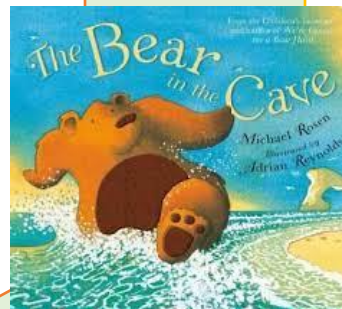
Comparison
 (which numbers are worth more or less than each other)

Sorting colours
 Sort and compare groups of objects, using different sizes, colours, types of object
 Sort groups of items based on size – challenge to think about more smaller items versus fewer larger items... how many? Which one is 'more' Identify equal amounts 'the same'
 Checking for errors in labeling – this pot says 4 but there are really 5 pencils
 Continue a pattern using threading beads/ peg boards
 Enjoy number rhymes

Join in with number songs and rhymes

Explore shape and pattern

Subitise numbers to 3

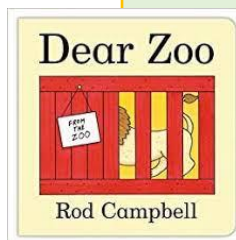
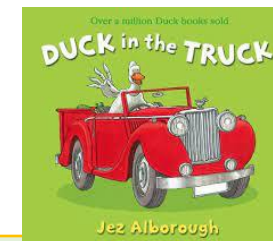


KNOWLEDGE, SKILLS AND UNDERSTANDING IN RECEPTION

• **Counting principles**

- 1:1 principles
- stable order principle
- cardinal principle
- abstract principle
- order-irrelevance principle
- Explore patterns
- Match and sort items into groups
- Find the same
- Subitise numbers to 5
- Compare, size, mass and capacity
- Extend a repeated pattern using shapes and colour
- Identify how a pattern can be circular not just linear
- Create own repeated pattern
- Representing 1,2,3
- Comparing 1,2,3
- Composition of 1,2,3

- Representing 1-5
- Finding one more
- Finding one less
- Exploring positional language
- Identify circles and triangles
- Explore shapes with 4 sides
- Begin to explore the concept of time
- Learn by rote the days of the week
- Identify which days we come to school and which days are part of the weekend



Through faith, friendship and fun we learn and grow.



KNOWLEDGE, SKILLS AND UNDERSTANDING IN PRE-SCHOOL

Explore numbers 1,2 – numberblocks

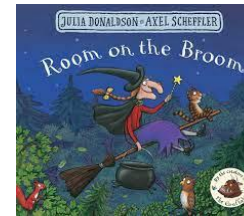
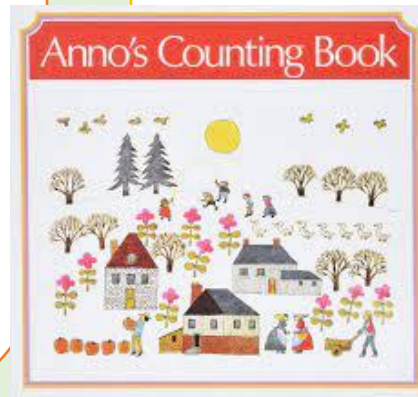
<https://www.bbc.co.uk/cbeebies/shows/numberblocks>

CARDINALITY AND COUNTING:

(the quantity of things a number represents)

- Number rhymes to count on and back
- Counting objects of different sizes
- Counting things that can't be seen – sounds, actions, words
 - Play dice games to collect an amount
 - Play track games and count along a track
 - Representing numbers on fingers
- Beginning to match numerals 1-5 to an amount
 - Sharing number books
 - Subitise numbers confidently to 3

Use fingers to represent numbers to 5, **finding alternative ways** of 5 (different combinations of fingers)



KNOWLEDGE, SKILLS AND UNDERSTANDING IN RECEPTION

CARDINALITY AND COUNTING:

(the quantity of things a number represents)

- Counting on and back starting from different numbers
- Counting things that cannot be moved, faces on a shape, pictures on a screen, birds on the bird table
 - Subitise numbers confidently to 6 using dot cards, tens frames, dominoes
 - Subitising small number of objects on a tray
- Attributing right number of items for a set group of people eg: snack time, biscuits and fruit
 - Making corrections about fewer and less
- Identifying numbers stay the same even when rearranged or spaced apart to create the illusion of more, taking up more space

Exploring zero

Comparing numbers to 5

Composition of 4 and 5

Compare the mass of objects

Compare capacity

Explore 6, 7, 8

Combining 2 numbers to find a total

Finding pairs

Explore length, how long is the playdough?

Explore height, how high/tall is your flower?

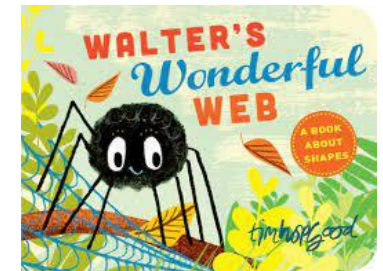
Explore 9, 10

Compare numbers to 10

Identify number bonds to 10

Explore 3D shapes

Identify patterns and create patterns of our own



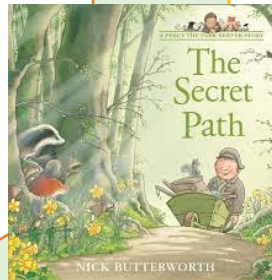
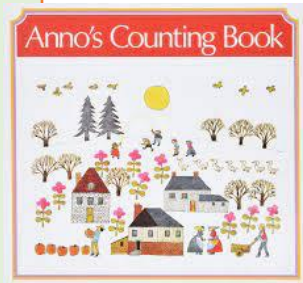
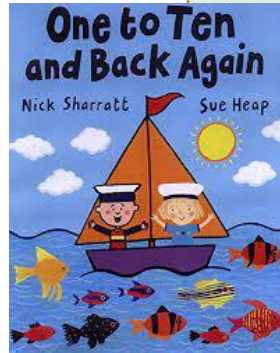
MATHEMATICS – YEAR A – CLASS – SUMMER TERM – OUT OF THE WINDOW & SPLISH, SPLASH, SPLOSH WHITE ROSE MATHS – FIND MY PATTERN, ON THE MOVE, TO 20 AND BEYOND

KNOWLEDGE, SKILLS AND UNDERSTANDING IN PRE-SCHOOL

COMPOSITION:

(seeing that numbers can be made up of two smaller numbers/ part:whole understanding)

- Explore conservation of number; how many different ways can 5 look... 2 and 3 (spots on a ladybird), 4 and 1, moving toys to show this part/whole concept
 - Games to strengthen composition could include: skittles
- Exploring partitioning in role play and small world play, sharing biscuits with 2 toys...
 - Explore sizes of objects, comparing size, sorting by size
- Compare biggest and smallest in size, tallest and shortest in height
 - Make patterns and models with shapes 2D and 3D
 - Complete jigsaw puzzles independently
 - Create simple shape pictures
 - Use and identify positional language
- Making pictures from natural items, look at links to shape vocabulary
 - Making a train track
- Controlling a bee bot, moving forwards and backwards
 - Explore shapes by cutting and folding
 - Make patterns with shapes
 - Large construction play
- Copy a pattern or shape using construction equipment
- Explore full and empty when filling containers with water and sand, messy play
 - Heavy and light
- Count footsteps to measure a large area
- Days of the week songs and stories



KNOWLEDGE, SKILLS AND UNDERSTANDING IN RECEPTION

White Rose Maths – First, Then Now

Explore numbers and counting beyond 10

Spatial reasoning

Match, rotate, manipulate

Explore adding numbers together

Explore taking numbers away

Compose and decompose

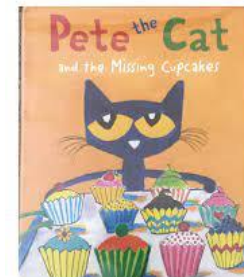
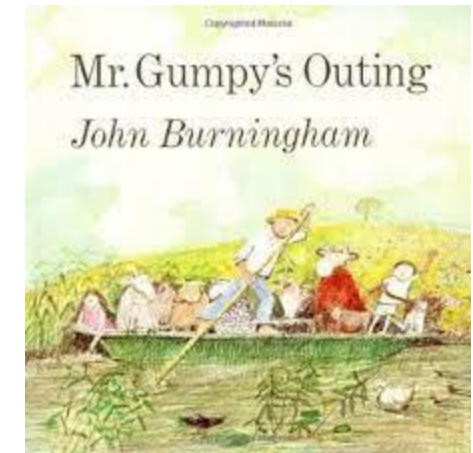
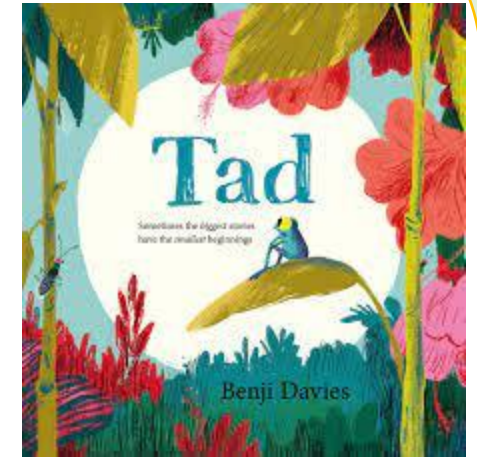
Identify doubling, sharing

Explore odd and even numbers

Patterns and relationships in number

Spatial reasoning

Mapping



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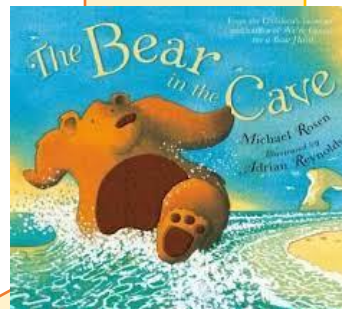
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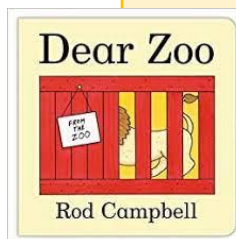
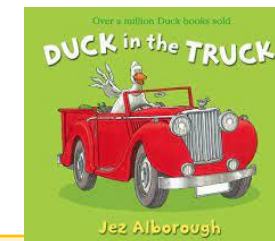


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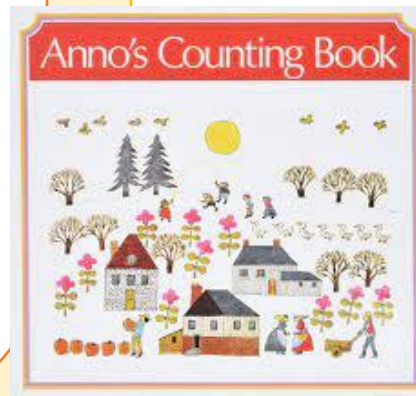
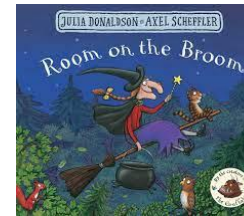
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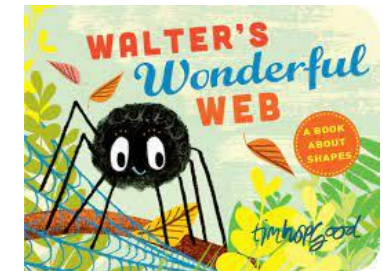
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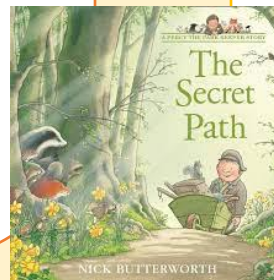
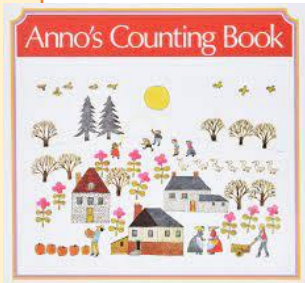
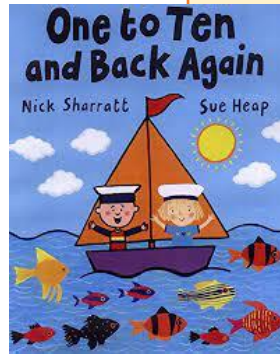
MATHEMATICS – YEAR B – CLASS – SUMMER TERM – UGLY BUG BALL & HOW DOES YOUR GARDEN GROW?
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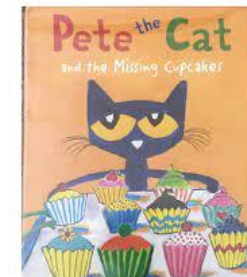
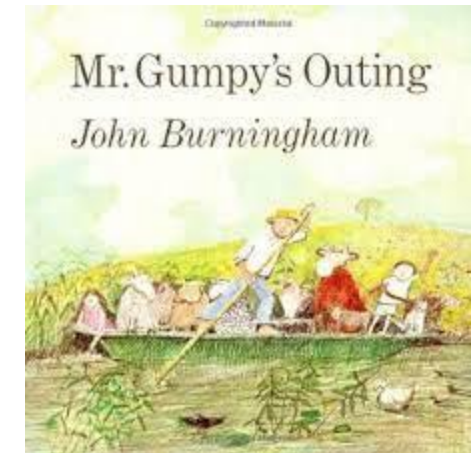
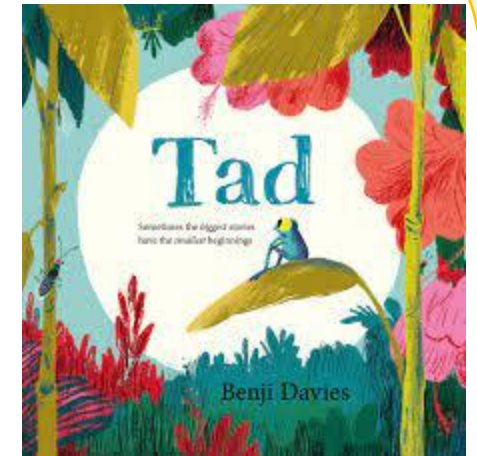
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