



Mathematics in Early Years

October 2022



What will we be looking at?

The Early Years Foundation Stage Curriculum

The Early Learning Goals (we use these to assess the children's level of development at the end of the year.)

How do we teach maths in class?

Understanding number

How can you help your child?



The Early Years Foundation Stage Curriculum



Children in Reception will learn:

Count objects, actions and sounds
Subitise (recognise quantities without counting) up to 5.
Link the number symbol (numeral) with its cardinal number value
Count beyond ten
Compare numbers
Understand the 'one more than/one less than' relationship between consecutive numbers
Explore the composition of numbers to 10
Automatically recall number bonds for numbers 0-5 and some to 10

The Early Years Foundation Stage Curriculum

Children in Reception will learn:

Select, rotate and manipulate shapes to develop spatial reasoning skills

Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can

Continue, copy and create repeating patterns

Compare length, weight and capacity

There is no longer a focus on Shape, Space and Measure as an Early Learning Goal (ELG) but it will inform part of our teaching for the year.



Early Learning Goals



Number

- Have a deep understanding of number to 10, including the composition of each number.
- Subitise
- 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.

Early Learning Goals



Numerical Patterns

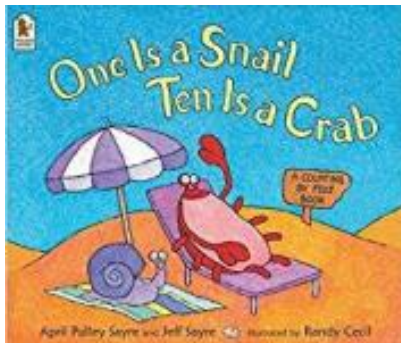
- Verbally count beyond 20, recognising the pattern of the counting system.
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.



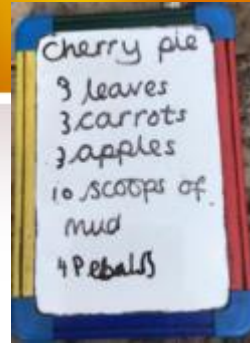
How do we teach maths in Panda Class?



- Whole class teacher directed activities
- Group activities
- Interactive whiteboard games
- Stories
- Songs
- Play based activities
- Online videos such as Numberblocks



How do we teach maths in Panda Class?



Play based activities:

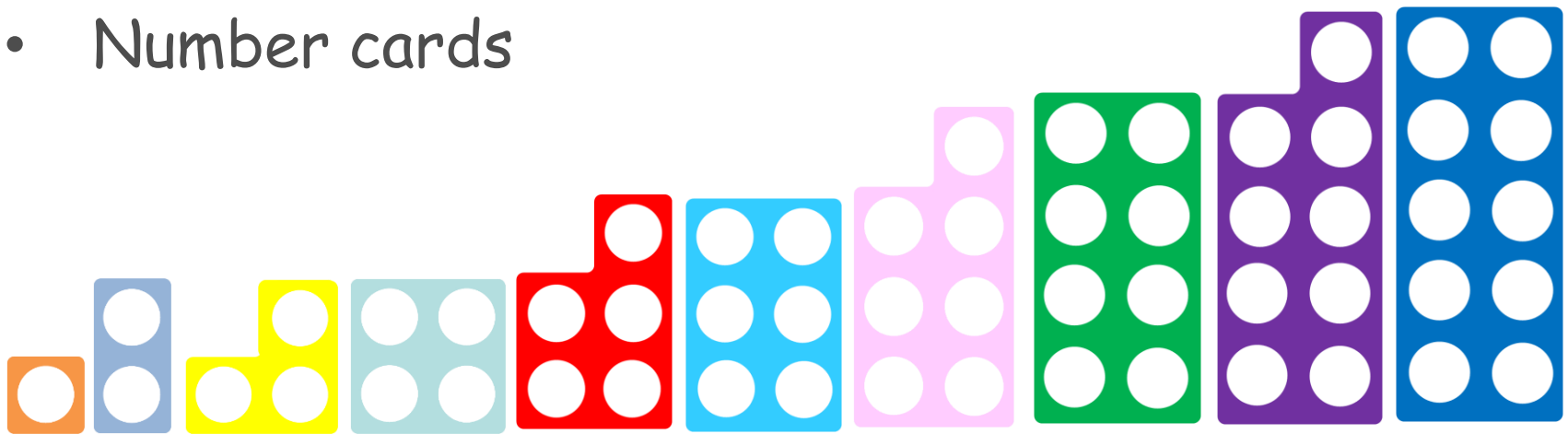
- Mud kitchen - recipes
- Using sand - hiding numbers or items
- Balance bikes - we use Numicon shapes on the bikes and the children have to park them up accurately
- Construction - building models and labelling how many blocks have been used
- House area - labelling items in the house to buy. Use the £1 coins



How do we teach maths in Panda Class?

Manipulatives:

- Numberblocks
- Numicon (number shapes)
- Anything that can be counted (conkers, acorns, teddy bears, Smarties!)
- Dice
- Number cards



How do we teach maths in Panda Class?



- Counting on (putting a number into our head and counting on from that number)
- Use a range of mathematical vocabulary interchangeably (e.g. add, altogether, sum)
- Recognise a number of items without counting
- Estimating and then checking
- Using our reasoning skills to explain how and why we got to an answer

Understanding number



Numbers are so much more than being able to count. Your child might be able to count to 10, 20, 50, maybe even 100 but do they really understand number?

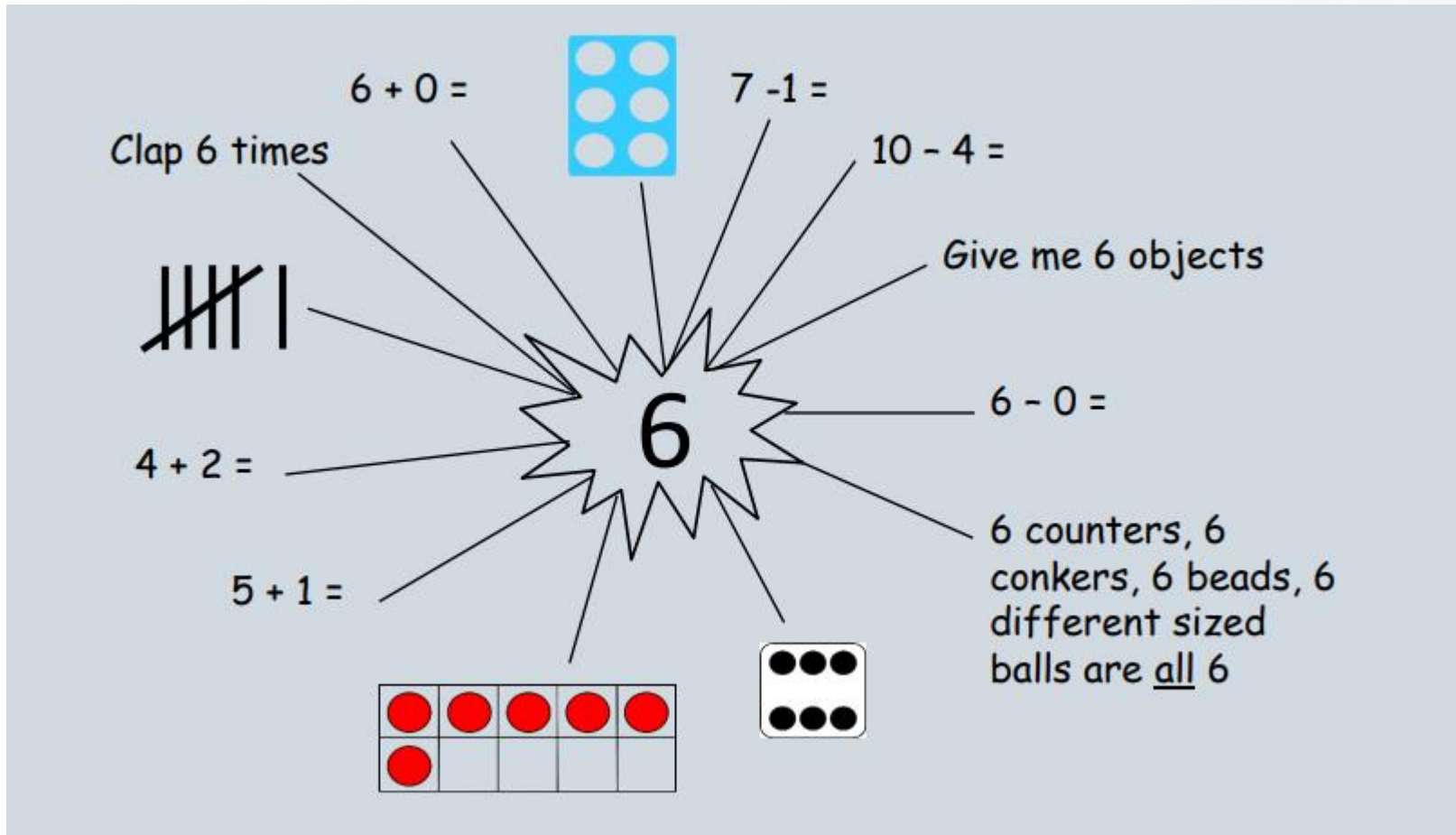
What is important?

Representing numbers in different ways
Answering different questions e.g. "How many?"



Understanding number

An example of just some of the ways to explore variation:



How can you help your child at home?



- Count forwards
- Count backwards
- Sing nursery rhymes
- Read stories which contain numbers and counting
- Provide opportunities to count indoor and outdoors
- Explore 'more than', 'less than', 'the same'
- When adding numbers or object, try counting on
- Sort toys and objects by size, height, mass and length
- Talk about money and use money in everyday experiences
- Discuss time in everyday terms e.g. days of the week, yesterday, tomorrow, lunch time, bed time.

Useful website



Top Marks

<https://www.topmarks.co.uk/Search.aspx?Subject=16&AgeGroup=1>

Oxford Owl

<https://home.oxfordowl.co.uk/maths/primary-maths-age-4-5-reception/>

NRICH

<https://nrich.maths.org/13371>

Pinterest has so many amazing ideas for maths activities

<https://www.pinterest.co.uk/>



Useful website



Any questions?

