

# Kings Worthy Primary School



Mathematics in Reception

# Hopefully by the end you will have...

- Greater understanding of how we teach mathematics.
- Knowledge of what the children need to know.
- Understanding of the vocabulary we use.
- Gather some ideas and techniques to support children at home.

# What Mathematics looks like in Reception

Mathematics comes under two strands:

## **Number**

Children at the expected level of development will:

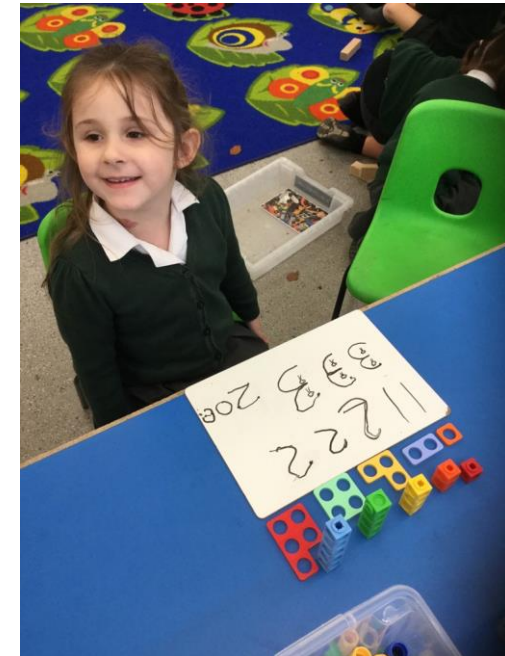
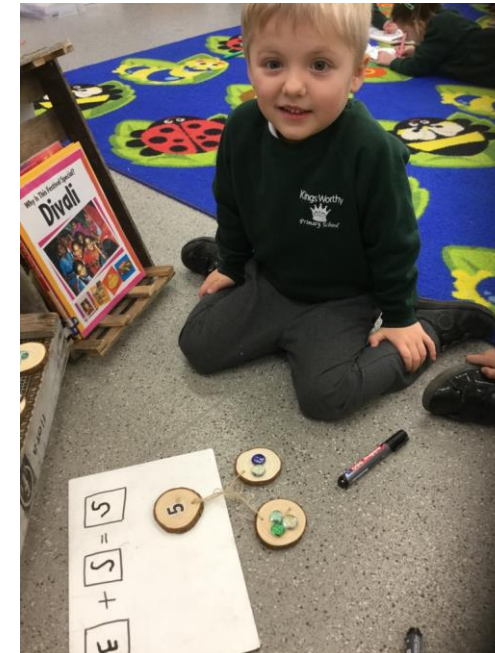
- Have a deep understanding of number to 10, including the composition of each number;
- Subitise (recognise quantities without counting) up to 5;
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10,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

## **Numerical Patterns**

Children at the expected level of development will:

- 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.

- Matching, sorting and comparing amounts
- Numbers 1-5
- 1 to 1 correspondence: board games, dominoes, number tracks, Numicon, small world objects
- Conservation of number: block play, lego, small world objects
- Number Recognition and Formation



- Number recognition
- Number formation
- One more and one less
- Comparing and sorting
- Composition
- Subitising
- Addition and Subtraction
- Problem solving: sharing objects between groups, finding half and doubling





# Shape Space and Measure

- 2D and 3D shapes: junk modelling and block play
- Capacity: water play, sand pit and mud kitchen
- Length and Height: small world animals, objects inside and outside
- Patterns: colours and shapes



# How we teach Mathematics

- Daily whole class maths sessions
- Small maths focus groups
- Adult led play
- Child initiated learning and activities



# Whole Class Teaching Sessions

- Teachers plan together each week to introduce or revisit key concepts consistently across the year group.
- Within our whole class teaching sessions the children don't only work to deliver their maths skills but also their listening and attention skills.
- These sessions allow the teachers time to constantly assess where the children are at within their learning. This then enables them to support and challenge where necessary to ensure the best for each child.

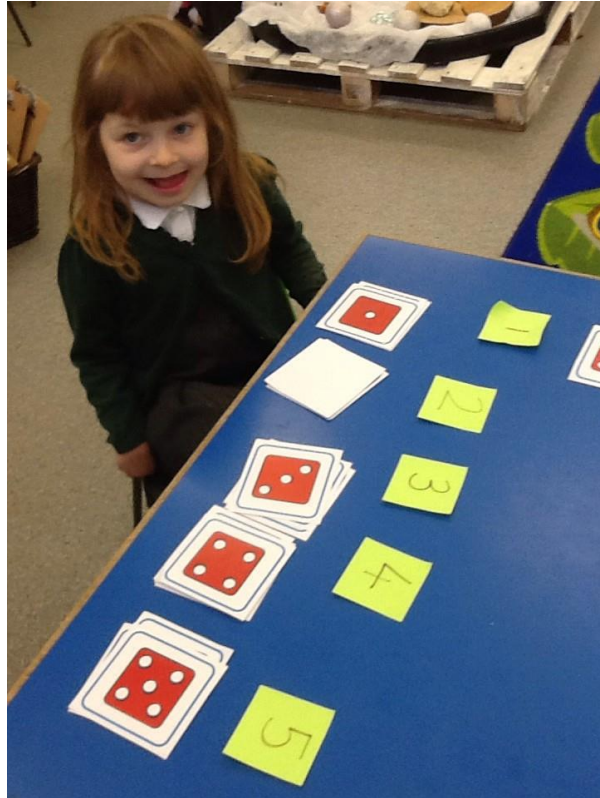
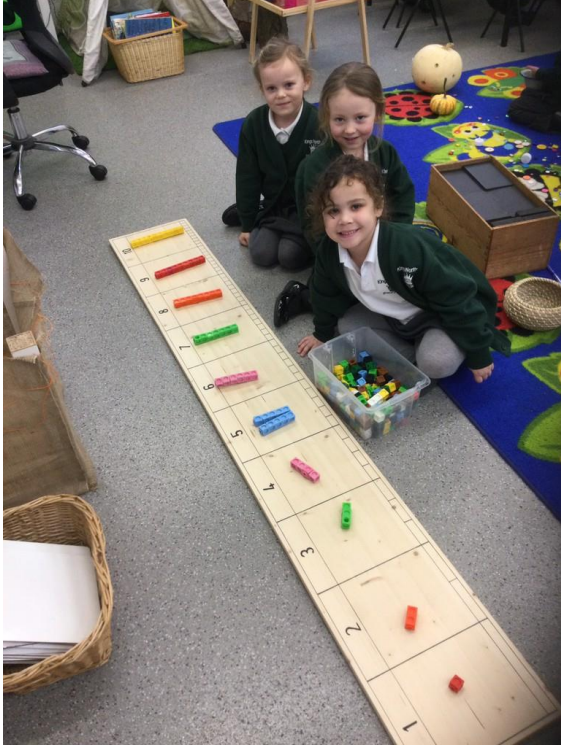


# Small Maths Focus Groups



- Following each whole class session, we then have different groups of children throughout the week. Each group will work with both the Class Teacher and LSA on different occasions and will have time to practise what has been taught on the carpet in a smaller group.
- This is a great way for both the adults in the classroom to work with each child and enables them to have more one to one time with a child if necessary.
- Working in these smaller groups also enables children to have more of an opportunity to speak or show off their maths skills!

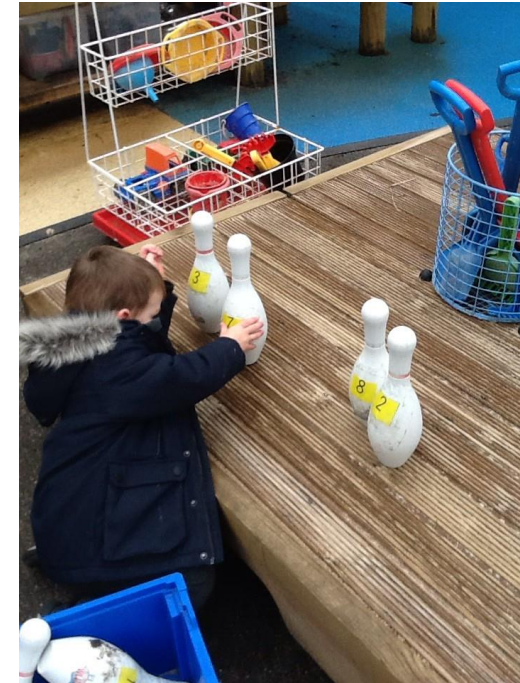
# Adult Led Play



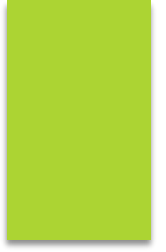
- Allows adults to model mathematical skills and build upon the children's knowledge of different concepts.
- Adults can focus on specific aspects of learning and address any misconceptions.
- Adults are able to model and encourage the use of mathematical language.

# Child Initiated Learning

- This happens both our inside and outside areas.
- Children are able to choose their own mathematical learning.
- It allows children to explore different approaches and reach conclusions themselves.
- It encourages critical thinking, problem solving and perseverance.



# How You Can Support Your Child at Home



- IT games and other apps
- Singing number songs e.g. 5 little ducks, 10 green bottles
- Practical maths: counting items into a shopping basket, adding small quantities of coins together, sharing toy food at a teddy bear's picnic or toys out together.
- Playing I spy whilst on walks out and about – which shapes or numbers can you see? Number plates, numbers on buses etc are great for this.
- Children's play should include opportunities for size, shape, capacity and weighing.
- Playing board games.
- Numberblocks
- Just have fun!



Thank You for Listening



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