Early Years Maths Calculation Policy

'Together we unlock potential and learn for life'





This policy was approved by the Governing Body of Moor First School at their meeting on:

Signed	Chair of Governors
Signed	Co-Head Teacher
Signed	Co-Head Teacher
Signed	Curriculum Leader
Review Frequency	Next review

Every 3 years May 2025

Reception representations by each unit

Unit 1: Just like me

• Matching to find same and identify different

Can you cut out these buttons? 🛛 🌾

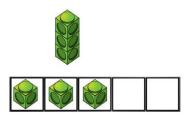
- Sorting things that have something in common
- Comparing size and quantity

Matching

Now can you find all of the buttons that match?					
\bigcirc	::	\bigcirc	::)	$\overline{\cdots}$	
	$\overline{\mathbf{\cdot}}$::		\bigcirc	
			\bigcirc	\bigcirc	

4

Making representations of numbers - seeing them as part of a bigger group



Comparing size



More and fewer

Unit 2: It's me 1,2,3

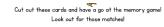
- Representing 1,2,3 •
- Comparing 1,2,3
- Composition of 1,2,3

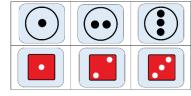


Now record your score and then have another go! đ Did you score more or less this time?

Make a collection of objects to represent the number two. How many different ways can you find?





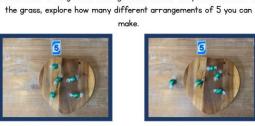




Unit 3: Light and dark

- Representing, comparing and composing 4 and 5
- 1 more and 1 less

to (Gather together a set of 5 objects. Just like we arranged our 5 frogs with some in the pond and some on





Make a collection of objects to represent the number five. How many different ways can you find?



As well as collecting objects, you could also represent the number five by drawing a picture.

4

- Contraction Shake 4 double-sided counters (or painted butter beans) and then let them fall on the table. How many counters have landed on the red side? How many have landed on the yellow side?

Have you found all the possible ways?



How many different ways can you find to make 4? Now use 5 counters. How many different ways can you find to make 5?

Unit 4: Alive in 5:

- Introducing zero •
- Comparing numbers to 5 •
- Composition of 4 and 5 •

Set up a teddy bears picnic and gather some food or objects to share. Explore sharing the food or objects between 2 teddies.



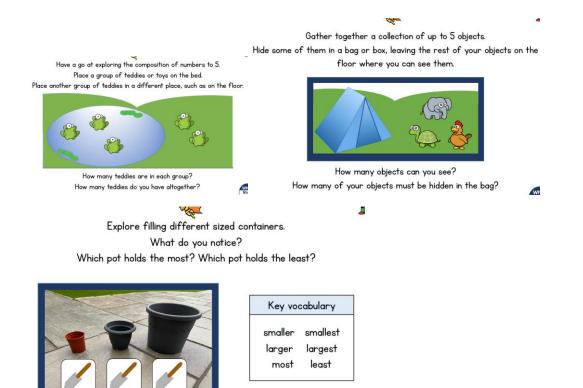
Do both teddies have the same? Or does one teddy have more or fewer? Now have a go at sharing between 3 teddies. Wh





W

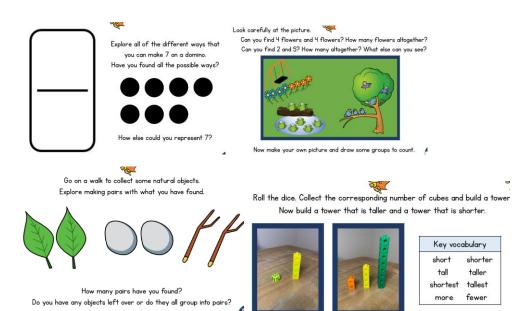
You could even go on a walk and look to see where you can spot zero You might spot 0 cars on the road or 0 horses in the field. How many Os can you find?



Unit 5: Growing 6,7,8

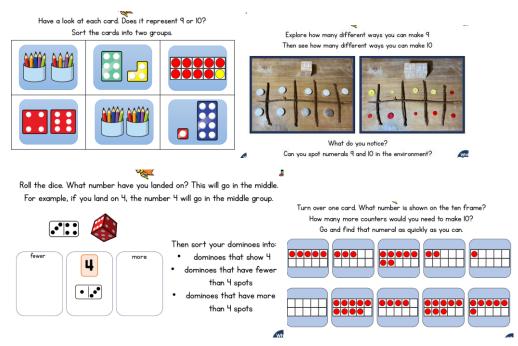
- Representing, comparing and composing 6, 7 and 8
- Making pairs
- Combining groups

13



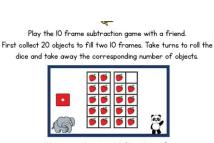
Unit 6: Building 9 and 10

- Representing, comparing and composing 9 and 10
- Comparing numbers to 10
- Bonds to 10



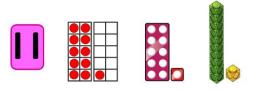
Unit 7: To 20 and beyond

- Subitising, sorting and matching, composition, counting, comparing and ordering
- Building numbers beyond 10
- Counting patterns beyond 10



How many objects are left each time? The winner is the player that takes away the last object.

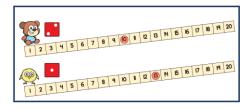
Shuffle the II-20 numeral cards and select one at a time. Represent each number in different ways.



You could use cubes or objects from around your house. You could also use the ten frames on the next page to help you. What do you notice about each number?

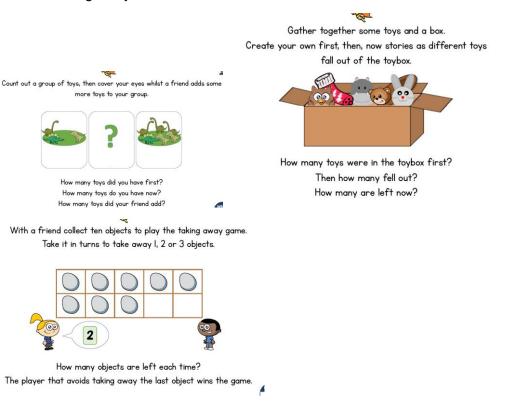
1

Play the race to 20 game with a friend. Roll a 1-3 dice and count on that number of spaces on the track. The first player to reach 20 is the winner.



Unit 8: First, then, now

- Subitising, sorting and matching, composition, counting, comparing and ordering
- Adding more
- Taking away



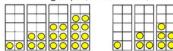
Unit 9: Find my pattern

- Subitising, sorting and matching, composition, counting, comparing and ordering
- Doubling
- Sharing and grouping
- Even and odd

Encourage the children to investigate whether small quantities are odd or even by sharing into 2 groups and by making pairs. Prompt them to recognise that sometimes there is one left over.



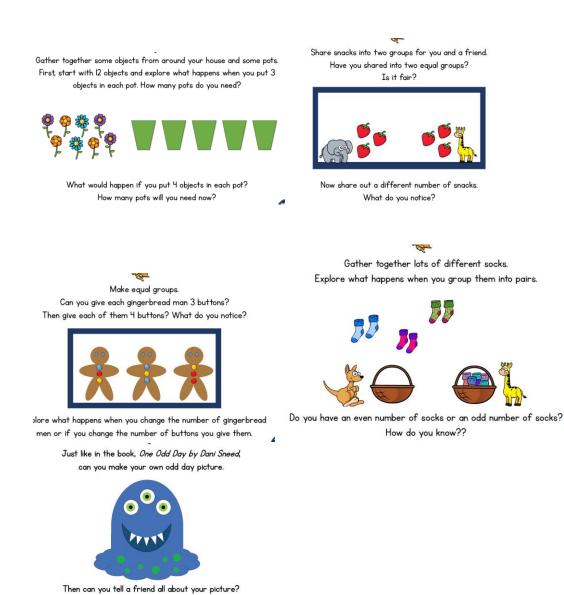
Ask the children to build pair-wise patterns on the 10 frames and sort them into those which have two equal groups (even numbers) and those which have two unequal groups (odd numbers).



Sit opposite a friend with a barrier between you. Set out a quantity of objects, show your friend quickly and then hide again.



Your friend then needs to match your quantity. Remove the barrier and check if you have a double. Which double have you made?



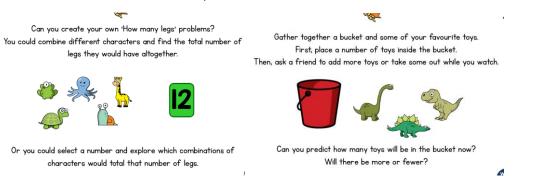
Unit 10: On the move

Subitising, sorting and matching, composition, counting, comparing and ordering

W

Patterns and relationships

How many odd numbers can you see in your picture?

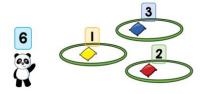


Who could be in Mr Gumpy's boat if there are 8 legs altogether. What if there are 6 legs or 10? Who could be in the boat this time? I wonder if there could be 9 legs in the boat?



You could draw pictures to help you to work it out.

Gather three hoops or buckets and number them 1, 2 and 3 Throw your bean bags and then add up your points.



How many points have you scored?

Is there more than one way to score 6 points? What is the highest possible score?

Early Years Calculations

Nursery – officially up to 5

Reception - officially up to 10 (but we represent numbers to 20 and count beyond)

Addition and Subtraction

- Representing the number eg seeing 3 as 2 and 1
- Counting along a number track in a game
- Counting forwards and backwards (beginning of 1 more and 1 less)
- How many altogether?
- How many have been taken away/are left?

Reception only:

- Doubles
- Some of the objects have hidden how many are hiding
- First, then, now (calculations with missing numbers in all 3 locations)
- Representing the teen numbers as 10 and x more
- 1 more and 1 less

Multiplication and division

- Sharing
- Pairs being 2 of something

Reception only:

- Counting in 2s
- Doubling
- Seeing 9 as three 3s
- Grouping for division