

# Reception Maths Everywhere - Collections

Take a basket or bag, go outside and collect some items such as pebbles, twigs and leaves.

Encourage your child(ren) to sort the collection however they like and to explain their sorting rule to you.

Ask questions like:

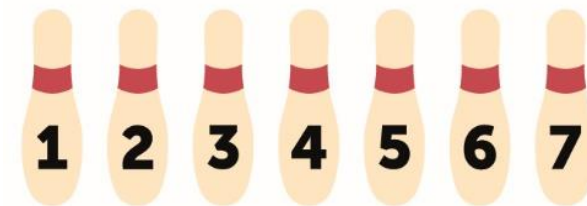
- Which of your piles has got more than *four items*?
- Stand on one leg next to the pile that has fewer than *four* in it?
- Can you share this set of objects equally with me?
- If we lined the objects up next to each other – which would the biggest collection be?



# Reception Maths Everywhere – Target practise

Play with numbered skittles and a ball, numbered hoops or draw some circles on the ground with numbers 0-6 on them. Have a container of pasta like penne or shell pasta.

Ask child(ren) to knock skittles down or throw three throwing objects into the hoops/circles.



Point to each skittle/circle and ask them to collect that number of pasta pieces.

Ask questions/make suggestions such as:

- Count the pasta pieces to show me how much you scored?
- Which (skittles/circles) will you aim for to get a higher score?
- What would be your score if your stone landed in a 2 instead of a 3?

Play again.

Let your child(ren) decide on some playing rules – perhaps changing where the higher scoring skittles or circles are.



# Reception Maths Everywhere – Number hunts

Go for a walk.

Allow your child to take some photos of numbers they see on their walk.

This could be a flower, where they can see a number of leaves or petals, or a ladybird with spots.

Look also for numbers that help us like speed limits and door numbers to take photos of.

Ask questions such as:

- Can you find me something that is a number more than five?
- What do you think the next door number will be? Were you right?
- Where is the house with the number [the child thought it would be]?
- What's the biggest number we found?

Hide a number of objects around the house or garden and challenge children to find them. Provide clues such as in the bedroom near the wardrobe.



# Reception Maths Everywhere - Containers

In the kitchen sink or water table in the garden, provide children with different sized containers to 'wash up'. Or this could take place in the bath with different containers.



Ask questions such as:

- Will the water from this container be able to fill this container?
- Where do you think the water will come to if you pour the water from this container into this container?
- How many cup/beaker full of water will it take to fill this (bigger) container?
- How many egg cups full of water will it take?
- Why did it take more egg cups filled with water than cups/beakers?



# Reception Maths Everywhere - Puddles

On/after a rainy day go for a walk or into a garden.  
Take your wellies and jump in some puddles!

Ask questions like:

- Which do you think was the deepest?
- Where do you think the water will go up to on your wellies?
- What about on my wellies?

Then jump in the puddle to find out.

Take a stick marked every 1cm.

Put the stick in the puddle and find the 'deepest' or 'shallowest' puddle you can.

On a showery day, help your child draw around a puddle with chalk.

Draw around it again later.

Ask: "What happened to the puddle? I wonder why."



# Reception Maths Everywhere – Hopscotch

Draw up a hopscotch grid with numbers 1-10 on it.  
Show child(ren) how to play.

Ask questions like:

- What number did the stone land on?
- How many hops and how many jumps will you need to take to land on that number?

Ask children to draw/find a collection that matches each number and place it on the grid.

Rub out some of the numbers or write a number that doesn't fit.

Ask children to 'spot the swap' and correct it or fill in missing numbers within the squares.

Change the numbers on the hopscotch to 11-20.

