Reception Mathematics Workshop

March 2016

Mathematics Workshop

- What is maths?
- How is maths taught in Reception?
- Why is maths important?
- How can I help my child at home?
- Vocabulary

What is Maths?

Maths in Reception is divided into two main areas

1.Number

Counting

Recognising numerals

Adding

Subtracting

Doubling

Halving

2. Shape, Space and Measure

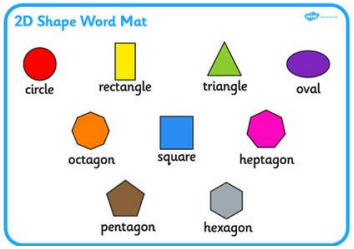
2d shapes

3d shapes

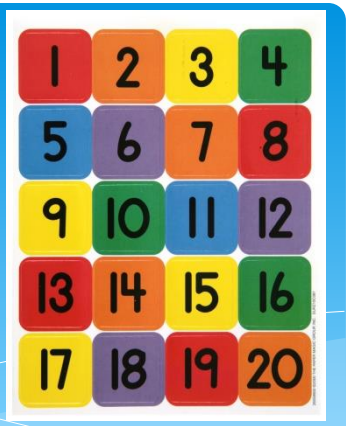
Weight

Capacity

Height



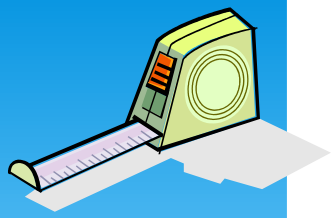
What is Maths ?



Number

Expected	Children count reliably with numbers from **one to 20**, place them in order and say which number is **one more or one less** than a given number. Using quantities and objects, they **add and subtract** two single- digit numbers and count on or back to find the answer. They solve problems, including **doubling, halving** and sharing.
Exceeding	Children estimate a number of objects and check quantities by counting up to 20. They solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups.

What is Maths ?



Shape, Space and Measure

Expected	Children use everyday language to talk about **size, weight, capacity, position, distance, time and money** to compare quantities and objects and to solve problems. They recognise, create and describe **patterns**. They explore characteristics of everyday objects and **shapes** and use **mathematical language** to describe them.
Exceeding	Children estimate, measure, weigh and compare and order objects and talk about properties, position and time.

How is maths taught in reception?

Number

* **Number rhymes** (counting on and back)

Eg: 5 little men in a flying saucer

1,2,3,4,5 once I caught a fish alive

* **Practical activities**

Eg: number hunts, counting objects

* **Games**

Eg: bingo, dominos

* **Construction** (Addition and Subtraction)
* **Recording results**

How is maths taught in reception?

Space, space and measure

Questions are asked throughout the activities and appropriate language is modelled.

* **Practical activities** eg: shape hunts
* **Weighing objects**
* **Ordering size, height of objects**
* **Measuring in different ways** eg: feet, hands, rulers
* **Measuring time** eg: sand timers, stop watches, daily routine)

How can I help my child at home?

* Complete the maths challenge card to support your child's understand and use mathematical language.

* Count footsteps when walking (can you count to 20…50…60?

* Give you children mathematical problems eg: when shopping ask your child to pick up 4 apples, How many apples will we have if I get 2 more apples?

* Lay the dinner table for 4 people, count out 4 knifes and 4 forks. One person can't make dinner. How many people are coming for dinner?

* At bath time, play with different-sized containers

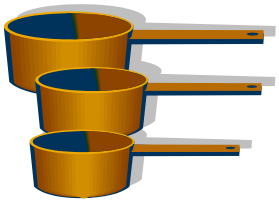
* Play card games – even a simple game of snap helps to develop number recog

* Play board games

Activities to support maths learning

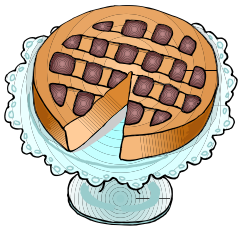
Kitchen

Let your child help with baking/cooking.



How many more pieces of cake do we need?

What size pan do we need?



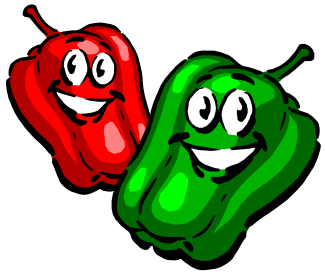
What shape is the cake?

1 plate, 1 knife and fork and spoon for 1 person

Shopping

Do we need a whole one or half?

Are these the same or different?



What number is on the bus?

Is your bag heavier or lighter than mine?

Sometimes let your child hand over the money

Activities to support maths learning

Gardening

Let your child help with the gardening.

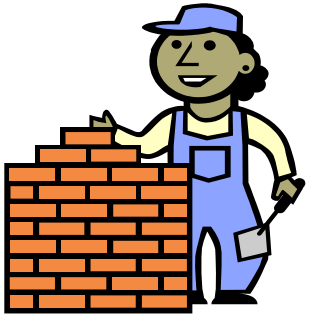
How many seeds/bulbs for this hole?

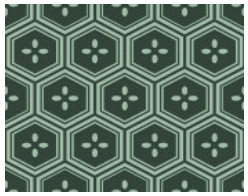
Is this hole big enough for this plant?

Talk about "too long" or "too tall" when cutting bushes back.

Pattern and shape in the environment

Talk about shapes and patterns of everyday objects





Can you see rectangles in the wall?

Can you see diamonds in the fence?

Point out the shapes of road signs

Activities to support maths learning

Additon/ subtraction (lego and building blocks)
One/two more
One/two less

Halving objects

Number cars
Ordering numbers

Doubling

Games on the move…

- On the school journeys look at numbers on houses and car number plates.
- Shapes in the environment (2d and 3d shapes)
- Counting steps (more, less)

Vocabulary

* how many…?
* count on (from, to)
* count back (from, to)
* count in ones, twos… tens…
* more, less, many, few
* pattern, pair
* guess how many,
* estimate
* greater
* more
* larger
* bigger
* most
* biggest
* largest
* one more, ten more
*

Vocabulary

Comparing

* greater
* more
* larger
* bigger
* most
* biggest
* largest
* one more, ten more
* less
* fewer
* smaller
* Least
* fewest
* smallest
* one less, ten less
* order
* size

Vocabulary

* **Adding**
* add
* more
* sum
* altogether
* one more, two more, ten more…
* how many more to make… ?
* how many more is… than…?

Subtracting

* take (away), leave
* how many are left/left over?
* how many have gone?
* one less, two less… ten less…
* how many fewer is… than…?
* difference between
  is the same as

Questions???

Useful Links

* www.mathszone.co.uk
* http://www.bbc.co.uk/bitesize/ks1/maths/
* http://www.familylearning.org.uk/online_math_games.html