Mental calculations that children should be able to recall quickly:

- All pairs of numbers with a total of ten, e.g. 7+3, 6+4
- Addition and subtraction facts for all numbers to at least 5
- Addition doubles of all numbers to at least 5, i.e. 1+1, 2+2

Useful websites

www.bbc.co.uk/schools/bitesizeprimary
http://www.bbc.co.uk/schools/websites/4_11/site/numeracy.shtml
http://nrich.maths.org
http://resources.oswego.org/games
www.subtangent.com/maths/games.php
www.woodlands-junior.kent.sch.uk
www.coxhoe.durham.sch.uk
www.teachingtables.co.uk
http://www.multiplication.com
http://www.coolmath4kids.com/
http://www.primarygames.com/math.htm
http://www.wmnet.org.uk/resources/gordon/Hit%20the%20button%20v9.swf OR google—hit the button

Carr Hill Community Primary School

Supporting Mathematics in The Transition Unit

Ofsted Outstanding 2010|2011

This booklet has been written to support parents and children in maths. It explains the different methods we use to solve +, -, x and ÷ calculations. It also includes some useful websites and activities to do at home.
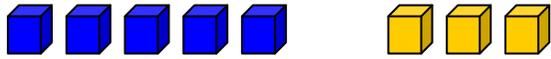
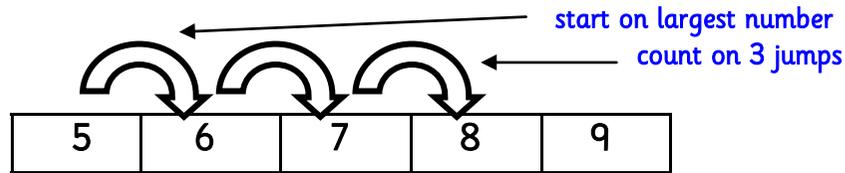Working Together for our Children
Carr Hill Community Primary School

Addition in Transition Unit

- Children begin adding groups of objects practically:

5 cubes and 3 cubes makes 8 cubes

- Next we count on using a number track,

1	2	3	4	5

counting on in single jumps $5 + 3 = 8$

start on largest number

count on 3 jumps

5	6	7	8	9

- Children will then use empty number lines, 0————10

counting in appropriate jumps to solve $10+12=22$. Here we start with 10, then add 10+2 (12) to make the answer 22.

+10   +2

Add on 12 in jumps of 10 + 2

10   20   22
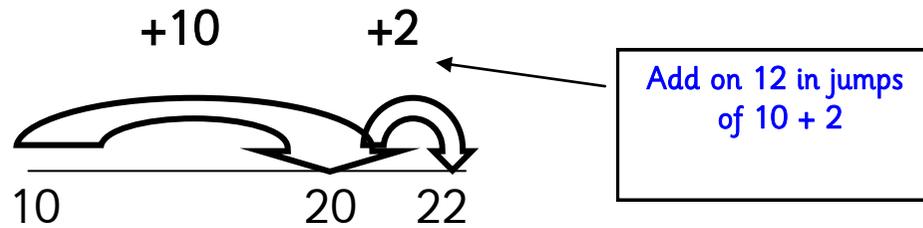
- We also use tens and units apparatus to solve $11+13 = 24$

1 ten   1 unit   1 ten   3 units

$+$

Fun activities to do at home

Money

- Allow children to add up small amounts of real money
- Encourage children to think about 'change'. Ask them how much change they would get from 10p if they spent 5p etc.
- Using 1p, 2p and 5p how many ways can you make 10p/20p
- Allow children to experience the use of real money

Measures and shape

- Involve children in cooking. Look at numbers on scales and measuring jugs. Estimate measurements and measure accurately.
- Estimate and measure distances in non-standard (e.g. hand spans) and standard measures (cms).
- Look for and identify different shapes around the house and in the environment. Ask how they know it is a triangle or a square or a cube etc. Talk about the sides and faces of shapes using words such as straight, curved.

Fun activities to do at home

Games

- Play games like snakes and ladders, ludo, skittles, bingo that involve counting and opportunities for addition and subtraction.
- Play dominoes where children have to recognise, count and match number/pattern of dots.
- Look at car number plates and add the digits 2+4 = 6. What's the highest value number plate they can find?

Number

Practise:
- Counting in 1's, 2's, 5's, 10's.
- Number bonds to 10, i.e. 7+3, 6+4, 9+1.
- Doubles and halves of numbers to 12 (Double 6 and Half of 12)
- Addition and subtraction facts to 10 by asking questions such as, 'There were 9 sweets, I ate 5 how many are there left?'
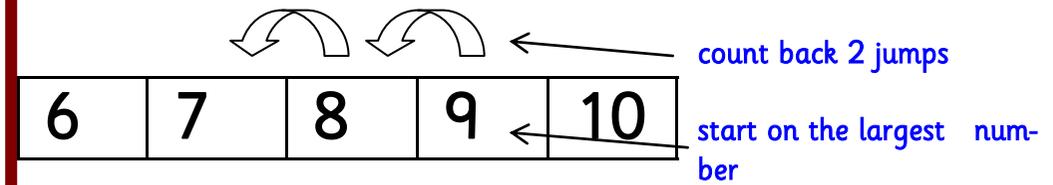- Writing and reading numbers to 10, 20, 50, then 100.
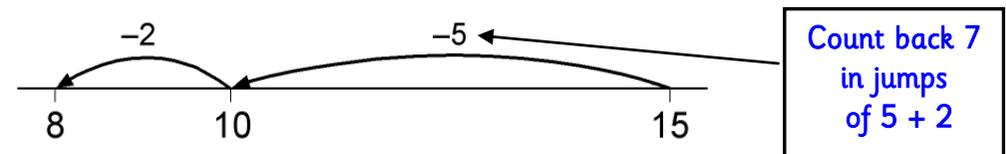
Subtraction in Transition Unit

- Children begin taking away groups of objects practically:

5 cubes take away 3 cubes leaves 2 cubes

- Next we count back with the use of a number track $9-2=7$

count back 2 jumps

| 6 | 7 | 8 | 9 | 10 |

start on the largest number

- Children will then use empty number lines to solve $15-7=8$ by counting in appropriate jumps. Here we start at 15, count back 5 to get to the nearest 10 and then count back 2.
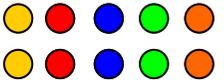
−2   −5

8   10   15

Count back 7 in jumps of 5 + 2

Children will also understand the term subtraction as 'take away' and 'find the difference.'

Multiplication in Transition Unit

- We begin by using practical activities to solve multiplication problems:

$5 \times 2 = 10$ ● ● ● ● ●   ← 5 sets of 2
   ● ● ● ● ●

- Next we move on to using repeated addition:

5 x 2 = (5 groups of 2) or 2 + 2 + 2 + 2 + 2

5 jumps of 2
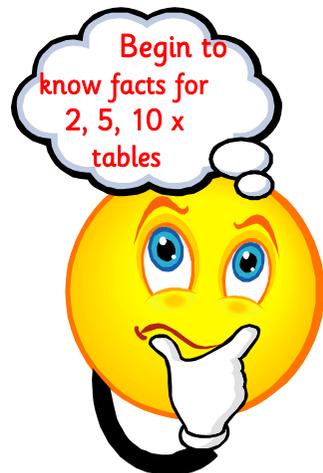
+2   +2   +2   +2   +2

0   2   4   6   8   10

So, 5 x 2 = 10

- Children will also begin to learn facts from the 2, 5, 10 x tables.

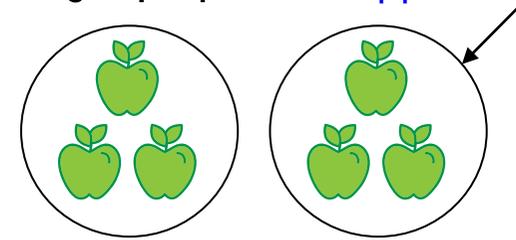Begin to know facts for 2, 5, 10 x tables
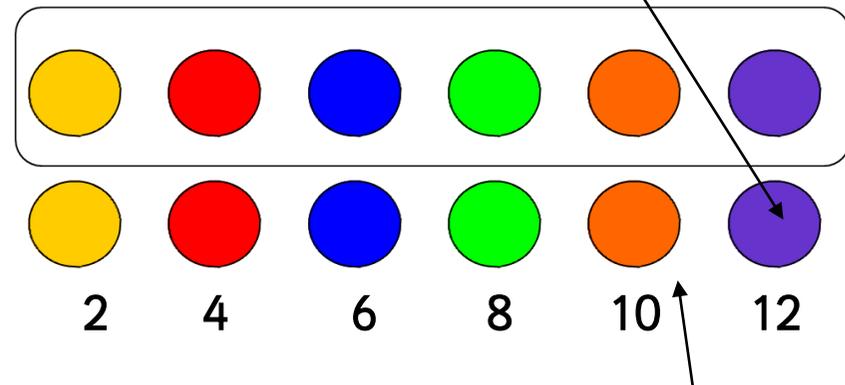
Division in Transition Unit

- We begin by using practical activities to solve division problems:

6 apples shared by 2 people: 3 apples in each set

- Next we use pictures to solve division problems:

How many 2's in 12?

draw sets of 2 until 12 is reached

● ● ● ● ● ●
● ● ● ● ● ●

2   4   6   8   10   12

there are 6 groups of 2 so the answer is 6