

A stylized background featuring a tree with a brown trunk and green foliage, a yellow sun, and green hills. The text is contained within white rounded rectangular boxes.

Maths Parent Workshop

Addition

Wednesday 29th April 2015
Mr Clark and Mr Smith

Objectives

A stylized tree with a thick orange trunk and a canopy of overlapping green circles in various shades, set against a background of green geometric shapes.

Today we will:

- Give you an introduction to the new Maths curriculum.
- Show you the process of how addition is taught at Park through the new calculation policy for each year group.
- Also give you an introduction to the new Maths Targets.

The new curriculum

From September 2014 Park Primary has been teaching in line with the new Maths curriculum, below are some of the more significant changes.

- There is higher expectation overall – pupils will be benchmarked against age-related expectations.
- There are earlier and more challenging requirements for multiplication tables, which have been increased to 12x12.
- The curriculum has clear expectations around written methods in addition to mental methods.
- Probability has been removed from the primary curriculum.
- There is an earlier and more challenging requirement for fractions and decimals.

Our Calculation Policy

Teachers at Park teach addition from our calculation policy.

In here it clearly states the different stages of each of the four operations.

This can be found on our website.

<http://www.park.newham.sch.uk/maths.html>

Calculation Policy **Park Primary School**



(Aligned with the 2014 National Curriculum)

Early Years

Addition - Early Stages (EYFS)

Children will engage in a wide variety of songs and rhymes, games and activities. They will begin to relate addition to **combining two groups of objects**, first by **counting all** and then by **counting on** from the largest number.

They will find one more than a given number.

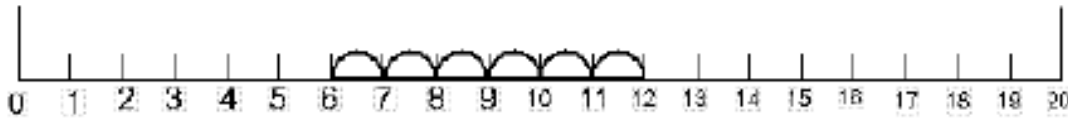
In practical activities and through discussion they will begin to use the vocabulary involved in addition.



'You have five apples and I have three apples. How many apples altogether?'

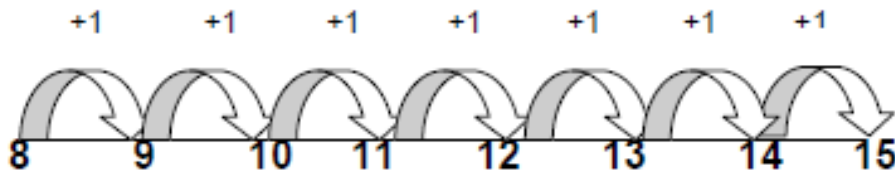
Year 1

$$6 + 6 = 12$$



'Put your finger on number six and count on six.'

$$8 + 7 = 15$$
 'Put your finger on number eight and count on seven.'



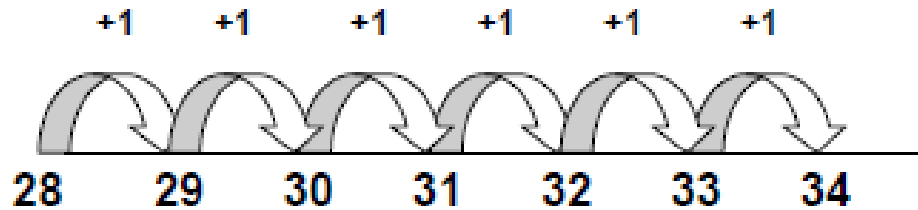
Children will use a marked number line.

When confident children will then move onto an unmarked number line.

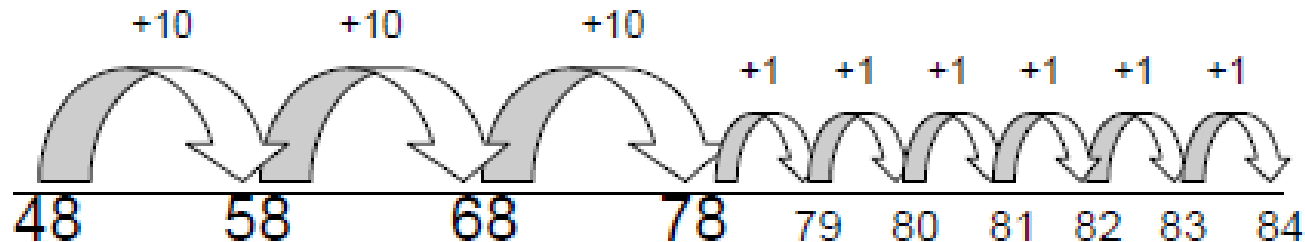
Year 2

Children will use an unmarked number line.

$$28 + 6 = 34$$



When confident children will then move onto making more efficient jumps.



Use in conjunction with a 100 square to show jumps of tens and ones.

Year 2

Also use the **partitioning method** to add two two-digit numbers:

$$\begin{array}{r} 43 + 25 = 68 \\ \swarrow \quad \searrow \quad \swarrow \quad \searrow \\ 40 \quad 3 \quad 20 \quad 5 \end{array}$$

$$40 + 20 = 60$$

$$3 + 5 = 8$$

$$60 + 8 = 68$$

Children will then move onto partitioning.

Year 3

Children will be introduced to the expanded written method.

$$63 + 32 = 95$$

$$\begin{array}{r} 60 + 3 \\ + 30 + 2 \\ \hline 90 + 5 = 95 \end{array}$$

'Partition the numbers into tens and ones/units. Add the tens together and then add the ones/units together. Recombine to give the answer.'

Then...

$$\begin{array}{r} 63 \\ + 32 \\ \hline 5 \quad (3 + 2) \\ + 90 \quad (60 + 30) \\ \hline 95 \end{array}$$

Add the least significant digits (units) together first and then the tens in preparation for the formal written method.

Year 4

$$176 + 147 = 323$$

$$\begin{array}{r} 147 \\ + 176 \\ \hline 323 \\ \hline \end{array}$$

Key term - **carry**

Children will then be introduced to the formal written method.

Starting with two-digit add two-digit, then moving onto three digit and beyond.

Year 5

Use the formal written method for the addition of decimal numbers:

$$£154.75 + £233.82 = £388.57$$

$$\begin{array}{r} 154.75 \\ + 233.82 \\ \hline 388.57 \\ \hline 1 \end{array}$$

Continue to use the language of place value to ensure understanding.

Ensure that the decimal points line up.

Key term - **carry**

Year 6

No objectives have been included in the programmes of study explicitly related to written methods for addition in Y6.

However, there is an expectation that children will continue to practise and use the formal written method for larger numbers and decimals and use these methods when solving problems.

Our aim is that by the end of Y6, children use mental methods when appropriate, but for calculations that they cannot do in their heads, they use an efficient formal written method accurately and with confidence.

Maths Targets

These targets will go home on Friday

They will show three targets for each half term, and are age appropriate in line with the new Curriculum.

The targets are for:

- Emerging
- Expected
- Exceeding

Year 4 Maths Targets		
Name _____		Class _____
Blue target= emerging for child's age. Green target= expected for child's age.		
Red target= exceeding expectations.		
Autumn term	Blue target	Round any number up to 100 on the nearest 10.
	Green target	Round any number under 1000 to 10, 100 or 1000.
	Red target	Round any number up to 100,000 on the nearest 10, 100, 1000 or 10,000.
Autumn term	Blue target	Show that the rule of any negative number below 0.
	Green target	Count back tens through zero to include negative numbers.
	Red target	Use mental hundreds and thousands when comparing values and ordering numbers and addition/subtraction.
Spring term	Blue target	Add 2 numbers with 4 digits together using column addition with exchanging between adjacent tens.
	Green target	Add and subtract with up to 4 digits using columnar formal written methods.
	Red target	Use mental methods when multiplying more than one of the operations.
Spring term	Blue target	Show that $100 \times 10 = 1000$.
	Green target	Divide and write decimal equivalents of up to 1000 of tenths and hundredths.
	Red target	Use the number line and hundredths as fractional values.
Summer term	Blue target	Use when calculating with whole numbers $4 \times 10 = 40$ for example.
	Green target	Divide, multiply and use real between numbers and digits 12 and 24 hour clocks.
	Red target	Use a 24-hour timetable to find out times for future events across phases.
Summer term	Blue target	Write all multiplication facts up to and including the 12 table.
	Green target	Recall all multiplication facts up to 12x12.
	Red target	Use long division when multiplying and dividing a whole number by 10.