



Numeracy Websites

Here are some useful websites that include various games and activities to support Numeracy work for Years 3 to 6.

www.FunBrain.co.uk

www.mathzone.co.uk

www.primarygames.co.uk

www.teachingtables.co.uk

www.woodlands-junior.kent.sch.uk

www.echalk.co.uk/Maths/maths.aspx

www.coxhoe.durham.sch.uk/curriculum-links/numeracy

www.topmarks.co.uk

www.sgfl.org.uk/games/games/maths

<http://www.learnyourtables.co.uk/en/index2.htm>



Numeracy at School

Addition & Subtraction

- Having problems with homework?
- Can't understand our methods?

“This isn't the way we did sums when we were at school!”

Have a look at the maths guidelines in our leaflet. Hopefully they will help!



Content Page

Nursery

Reception

Year 1 methods

Year 2 methods

Year 3 methods

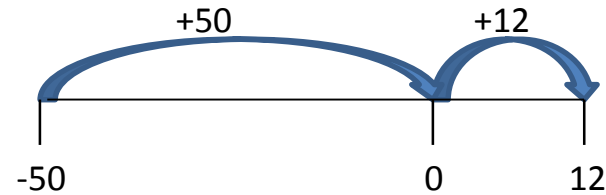
Year 4 methods

Year 5 methods

Year 6 methods

- Use a number line to find differences between positive and negative numbers.

e.x. -50 to $12 = 62$



- Use inverse method to check for accuracy.

$$\begin{array}{r}
 454128 \\
 +127566 \\
 \hline
 581694 \\
 \begin{array}{l} 1 \quad 1 \end{array}
 \end{array}
 \quad
 \begin{array}{r}
 71 \quad 81 \\
 \cancel{8}06\cancel{9}4 \\
 -37566 \\
 \hline
 43128
 \end{array}
 \quad \text{or} \quad
 \begin{array}{r}
 61 \quad 81 \\
 \cancel{7}15\cancel{9}7 \\
 -44178 \\
 \hline
 27419
 \end{array}$$

- Able to discover differences between numbers with two decimal places.

e.x.

$$\begin{array}{r}
 151 \quad 81 \\
 \cancel{1}627\cancel{9}.37 \\
 -7552.84 \\
 \hline
 8726.53
 \end{array}$$

Year 6

Addition & Subtraction



- Reading, writing and counting forwards and backwards to 1,000,000.
- Continue methods from Y5 to ensure understanding of compact method, developing to larger numbers.

e.x.

$$\begin{array}{r} 947237 \\ + 369485 \\ \hline 1,316722 \\ 11 \end{array}$$

- Develop addition of decimals, understanding the place value.

e.x.

$$\begin{array}{r} 3869.46 \\ + 492.23 \\ \hline 4361.69 \\ 111 \end{array}$$

$$\begin{array}{r} 47.68 \\ 72.942 \\ + 6.27 \\ \hline 126.892 \\ 111 \end{array}$$

- Develop vertical methods of subtraction from Y5.

e.x.

$$\begin{array}{r} 6111 \\ \cancel{7}25247 \\ - 87235 \\ \hline 638012 \end{array}$$

- Develop subtraction of decimals.

e.x.

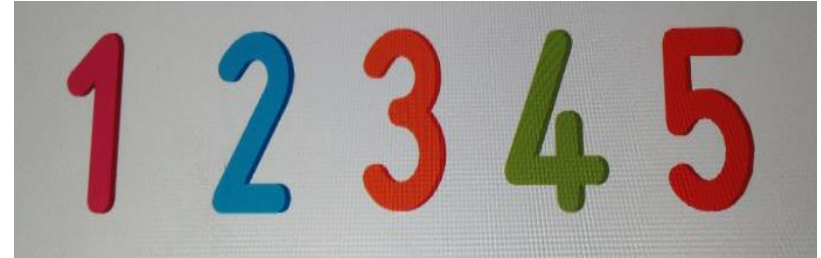
$$\begin{array}{r} 4161 \\ 3572.76 \\ - 287.32 \\ \hline 3285.44 \end{array}$$

Nursery

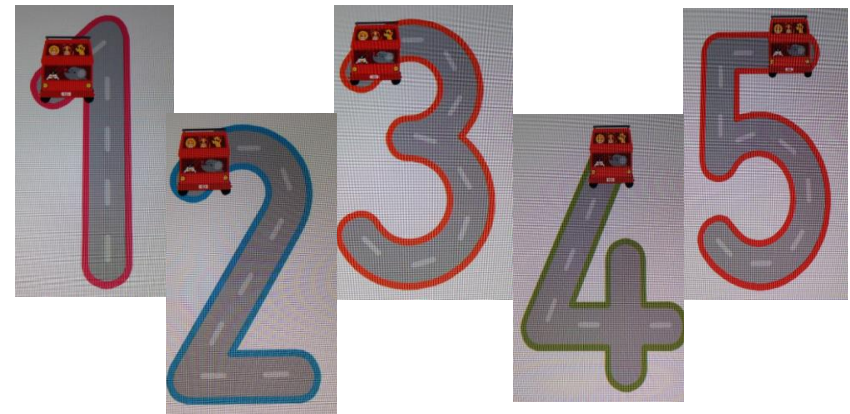
Addition & Subtraction



- Recite numbers from 1 to 10.
- Write numbers from 1 to 5.



- Name and order numerals to at least 5.
- Add and subtract one object, from a set of up to 5 objects.
- Form numbers and count reliably up to 5 objects.



Reception

Addition & Subtraction



- Reading, writing and counting up to 10.

Forming Numbers

It is important that you encourage your child to form numbers correctly. I hope that the following guidelines will assist you as parents/guardians when helping your child form numbers at home.

The red dot denotes the starting point to form the number with a pencil.

The pencil should always stay on the paper following the path of the arrows.

When forming number 4 the pencil must be raised in order to complete the second part of the number. The red cross denotes the second starting point.

If you need further information/advice please contact your child's classroom teacher.



- Recognise numbers to 10.
- Form numbers up to 10 correctly using the above guidelines.
- Understand the meaning above, below, near and middle.
- Introduce simple patterns
ex. Every other - red, blue, red, blue.
In pairs - red, red, blue, blue.
- When practicing counting forwards with your child always start with the largest number ex. $3 + 2$ start with 3 then add 2 (say 4 then 5.)

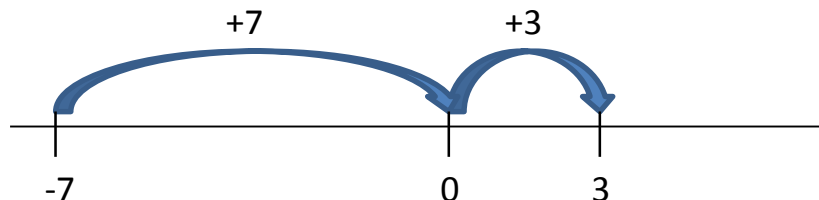
Year 5

Addition & Subtraction



- Use a number line to find differences between positive and negative numbers.

e.x. -7 to $3 = 10$



- Use inverse method to check for accuracy.

$$\begin{array}{r}
 54128 \\
 + 37566 \\
 \hline
 91694 \\
 1 \quad 1
 \end{array}
 \quad
 \begin{array}{r}
 81 \quad 81 \\
 \cancel{9}16\cancel{9}4 \\
 - 37566 \\
 \hline
 54128
 \end{array}
 \quad
 \text{or} \quad
 \begin{array}{r}
 81 \quad 81 \\
 \cancel{9}16\cancel{9}4 \\
 - 54128 \\
 \hline
 37566
 \end{array}$$

- Able to discover differences between numbers with one decimal place.

e.x.

$$\begin{array}{r}
 21 \quad 8 \quad 1 \\
 \cancel{3}27\cancel{9}.3 \\
 - 2452.8 \\
 \hline
 0826.5
 \end{array}$$

Year 5

Addition & Subtraction



- Reading, writing and counting forwards and backwards to 100,000.
- Continue using Year 4 methods to ensure understanding of compact methods, by developing larger numbers.

e.x.

	H	T	U
	2	5	4
+	1	3	3
<hr/>			
	3	8	7

	Th	H	T	U
	2	4	6	8
+	1	7	5	6
<hr/>				
	4	2	2	4
<hr/>				
	1	1	1	

- Leading on to compact methods, to 100,000

	5	4	1	2	8
+	3	7	5	6	6
<hr/>					
	9	1	6	9	4
<hr/>					
	1		1		

- Developing vertical addition and subtraction with money and measurements.

e.x.

	£24.35	2 1 0 1	36.14 km
+	£14.26		28.09 km
<hr/>			
	£38.61		08.05 km
<hr/>			
	1		

Year 1

Addition & Subtraction



- Reading, writing and counting forwards and backwards to 20.



- Learn Number Bonds of 10.

0	1	2	3	4	5
10	9	8	7	6	5

- Adding and subtracting numbers using up to 10 objects.

e.x. Add 2 objects and 3 objects together makes....



e.x. 3 objects take away 1 object leaves ...



Year 2

Addition & Subtraction



- Reading, writing and counting forwards and backwards to 100.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- Continue to revise number bonds of 10 in order to add similar numbers to 100.

e.x. $7 + 3 = 10$ $70 + 30 = 100$

- Understand that subtraction is the inverse (opposite) method of addition.

e.x. $6 + 4 = 10$ so $10 - 4 = 6$ or $10 - 6 = 4$

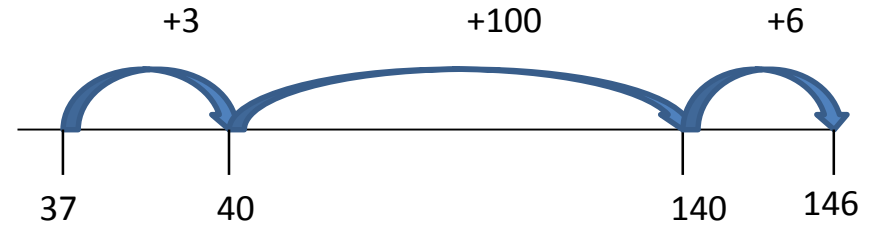
Year 4

Addition & Subtraction



- Revision of the number line, counting up from the smallest number

e.x. $146 - 37 = 3 + 6 + 100 = 109$



- Leading on to develop compact methods with tens and hundreds.

e.x. $125 - 38 = 87$

$$\begin{array}{r} 0 \ 11 \ 1 \\ 1 \ 2 \ 5 \\ - \quad 3 \ 8 \\ \hline 8 \ 7 \end{array}$$

- Introduce vertical addition and subtraction with money.

e.x.

$$\begin{array}{r} \pounds 4.36 \\ + \pounds 2.17 \\ \hline \pounds 6.53 \end{array} \qquad \begin{array}{r} 6 \ 1 \\ \pounds 7.39 \\ - \pounds 3.64 \\ \hline \pounds 3.75 \end{array}$$

Year 4

Addition & Subtraction



- Reading, writing and counting forwards and backwards to 10,000.
- Keep using Year 3 methods to ensure understanding of compact methods by developing larger numbers.

$$\begin{array}{r} \text{T U} \\ \text{e.x.} \quad 5 \ 4 \\ + 3 \ 3 \\ \hline 8 \ 7 \end{array}$$

$$\begin{array}{r} \text{H T U} \\ \quad 6 \ 8 \\ + 5 \ 3 \\ \hline 1 \ 2 \ 1 \\ 1 \end{array}$$

- Leading on to compact methods, up to HTU + HTU

$$\begin{array}{r} \text{H T U} \\ \quad 1 \ 2 \ 8 \\ + 2 \ 3 \ 7 \\ \hline 3 \ 6 \ 5 \\ 1 \end{array}$$

- - *Use of language is very important! Do the children know the value of each number? e.g. 8 add 7 equals 15, write down 5 and carry 10. 20 add 30 equals 50, plus the extra 10 is 60. Finally 100 add 200 equals 300)*

Year 2

Addition & Subtraction



- Using number factors that they know to help them count out new answers.

e.x. 7 + 7 is 14, so 7 + 8 (1 more) is 15.

If 5 + 3 = 8 so 15 + 3 (ten more) = 18

- Add and subtract numbers less than 10 in their heads, then move forward with the ability to add and subtract numbers up to 20;

e.x. What is 2 + 4? or What is 7 – 3?

Useful Websites

- <http://www.learnyourtables.co.uk/en/index2.htm>
- <http://www.topmarks.co.uk/>
- <http://www.bbc.co.uk/schools/starship/maths/>
- <http://www.primaryresources.co.uk/maths/maths.htm/>
- <http://nrich.maths/>
- <https://hwb.wales.gov.uk/>
- <http://resources.woodlands-junior.kent.sch.uk/maths/>
- <http://mathszone.co.uk/>
- <http://www.funbrain.com/brain/MathBrain/MathBrain.html>
- <http://www.crickweb.co.uk/ks1numeracy.html>
- <http://www.bbc.co.uk/cymru/dysgu/camaucyfri/>
- <http://www.maths-games.org/>
- <http://www.bbc.co.uk/bitesize/ks1/maths/>

You can also download the Cyw app – [Cyfri gyda Cyw](#).

Year 3

Addition & Subtraction

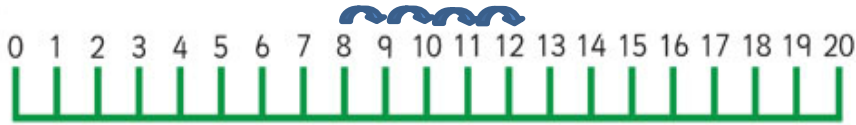


- Reading, writing and counting forwards and backwards to 1000.
- Horizontal sums, with numbers missing.

e.x. $12 + 3 = \square$ $8 + \square = 15$

- Use a number line to add (in steps)

e.x. Start at 8 and add 4 = \square



- Partition two digit numbers into Tens and Units.

e.x. $24 + 13 = 24 + 10 + 3 = 37$

$124 + 25 = 124 + 20 + 5 = 149$

- Introduce vertical addition and carrying over.

	T	U
e.x.	3	4
	+	2 5
	—	—
	5	9

	T	U
	7	9
	+	1 3
	—	—
	9	2
		1

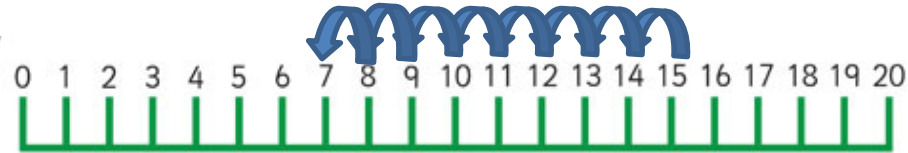
Year 3

Addition & Subtraction



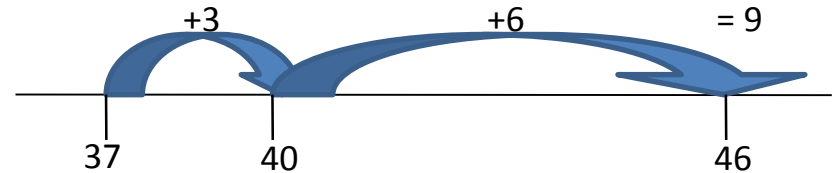
- Use a number line to subtract (in steps).

e.x. Start at 15, take away 8 = \square



- Use a blank number line to find small differences by counting up from the smallest number.

e.x. $46 - 37 = 9$



- Introduce vertical subtraction.

e.x.	$34 - 18 =$	2 1
		3 4
		- 1 8
		—
		1 6