

NUMBER BONDS

First ask children to work out all **number bonds to 10**.

$$0 + 10 = 10$$

$$1 + 9 = 10$$

$$2 + 8 = 10$$

$$3 + 7 = 10$$

$$4 + 6 = 10$$

$$5 + 5 = 10$$

$$6 + 4 = 10$$

$$7 + 3 = 10$$

$$8 + 2 = 10$$

$$9 + 1 = 10$$

$$10 + 0 = 10$$

Then ask children to work out all **number bonds to 20**.

See if they can see the pattern in the numbers:

e.g. $3 + 7 = 10$ so $13 + 7 = 20$

$6 + 4 = 10$ so $6 + 14 = 20$

Then play games to **reinforce** these BONDS:

Number bonds to 10 game

<http://www.iboard.co.uk/iwb/Alien-Pairs-to-10-733>

Number bonds to 20 game

<http://www.ictgames.com/funkymum20.html>

Move onto number bonds to 100:

TU	TU
75	63
25	37

Tens column makes 9..... units column makes 10

Number bonds to 100 game

<http://www.ilovemathsgames.com/Flashpuzzles/complements%20to%20100%20mx.swf>



**Practice,
Practice,
Practice**

COLUMN METHOD: ADDITION

Writing it down

When writing down sums, separate the numbers into **units, tens, hundreds and thousands**. List the numbers in a column and always start adding with the units first.

So when adding together $7948 + 1223$, you should write it down like this:

	Th	H	T	U
	7	9	4	8
+	1	2	2	3
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	9	1	7	1
<hr/>				
	1		1	

Write down your sums if the numbers are too high or too difficult to add in your head.



Remember to **line up** your numbers correctly. Zeros may help you.

Adding Decimals

Handwritten calculation showing the addition of $9.087 + 15.31$. The result is 24.397 . The numbers are aligned by their decimal points, and a zero is added to the end of 15.31 to make it 15.310. An arrow points from the speech bubble to the zero.

Adding Decimals – step by step

<https://www.khanacademy.org/math/pre-algebra/decimals-pre-alg/adding-decimals-pre-alg/v/adding-decimals-example-1>

COLUMN METHOD: SUBTRACTION

Writing it down

If the numbers are too high or too difficult to subtract in your head, write them down in columns. Always start subtracting with the units first.

	Th	H	T	U
	6	3 4	¹ 1	8
-	1	2	2	3
<hr/>				
	5	1	9	5
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Add **zeros** to help you line up your subtraction

Subtracting Decimals

Handwritten calculation showing the subtraction of $9.005 - 3.6$. The result is 5.405 . The numbers are aligned by their decimal points, and zeros are added to the end of 3.6 to make it 3.600. A zero is also written above the 9 in 9.005. An arrow points from the speech bubble to the zero above the 9.

Subtracting Decimals – step by step

<https://www.khanacademy.org/math/pre-algebra/decimals-pre-alg/adding-decimals-pre-alg/v/subtracting-decimals>

