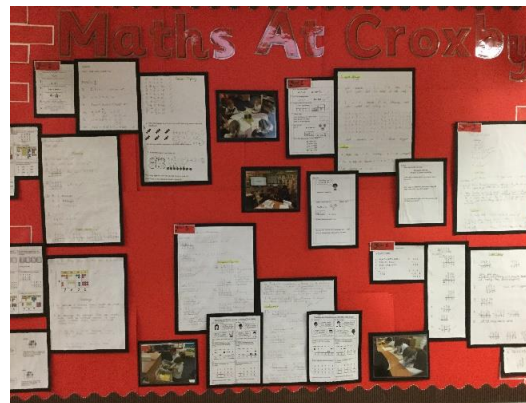




Maths

Curriculum Progression

Strand – To be able to add



Foundation stage:

TBAT to add two numbers together. 04.12.18

$3 + 1 = 4$

$4 + 2 = 6$

$5 + 3 = 8$

$7 + 2 = 9$

$6 + 4 = 10$

Challenge
Can you find 2 more numbers that equal 10? $8 + 2 = 10$

EYFS children have been using quantities and objects to add two single-digit numbers and count on to find the answer.

Key Vocabulary

Add, more, and, make, sum, total, altogether.

Year 1:

22.10.18
TBAF: Add and subtract.

Fluency

1. ~~1+3=4~~ 1+3=4 ✓

2. 2+2=4 ✓

3. Four + zero = Four ✓

4. $\begin{array}{r} 00 \\ 0 \end{array} + \begin{array}{r} 0 \\ 00 \end{array} = 00$ ✓


5. $0 + 5 = 5$ ✓ $\begin{array}{r} 00 \\ 00 \end{array}$

6. two + three = five ✓

Super Spicy


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 ✓

2. Fiona and George have 6 sweets in total. How many sweets could each child have?

 $3+3=6$ ✓ $2+4=6$ ✓
 $4+2=6$ ✓ $5+1=6$ ✓
 $5+1=6$ ✓ $0+6=6$ ✓
 $6+0=6$ ✓

List all the possible combinations as number bond sentences.

3. A butterfly's spots have fallen off.

 $3+3=6$ ✓ $6+0=6$ ✓
 $4+2=6$ ✓ $6+0=6$ ✓
 $6+0=6$ ✓

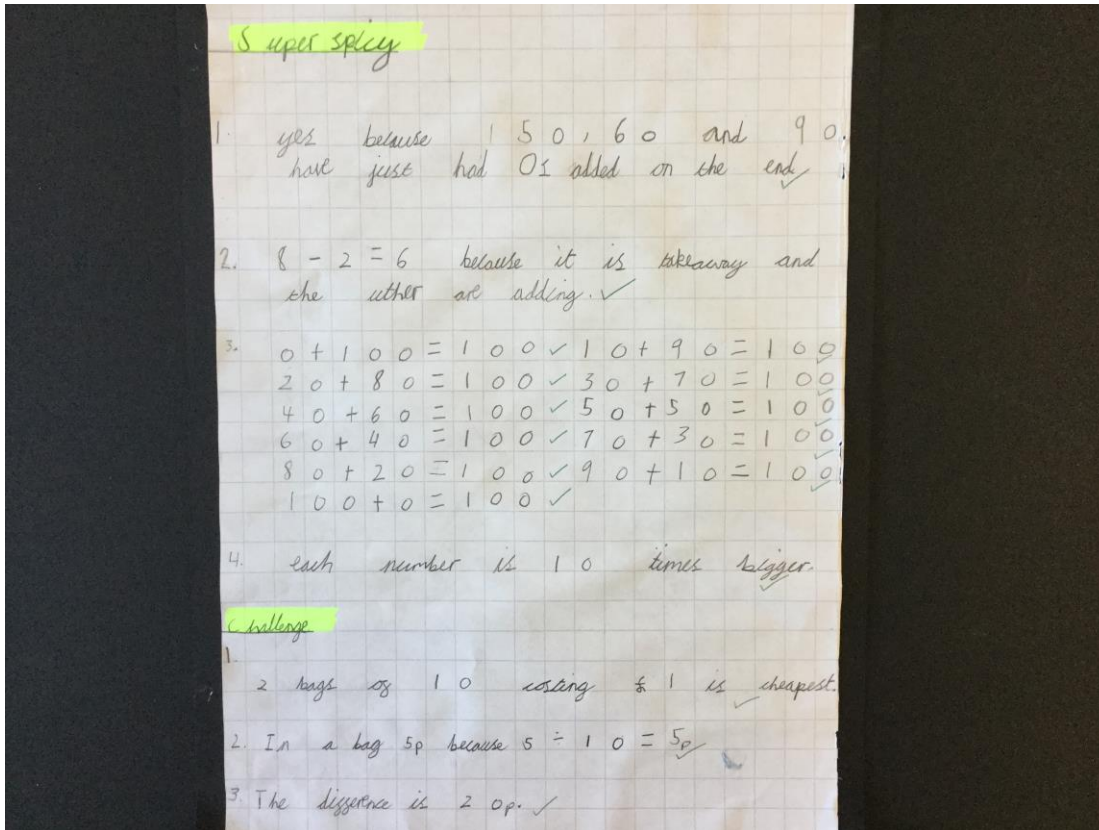
How many different ways can you put the spots back on?
Draw the spots and record the number sentence.

Year 1 have been adding one-digit and two-digit numbers to 20, including zero.

Key Vocabulary

Addition, add, more, and, make, sum, total, altogether.

Year 2:



Year 2 have been adding numbers using concrete objects, pictorial representations, and mentally, including:
 $TU+U$, $TU+T$, $TU+TU$ and $U+U+U$.

Key Vocabulary

Addition, add, more, and, make, sum, total, altogether, double
near double.

Year 3:

15.10.18

TEAT add and subtract

Eluzy

1. False ✓
2. False ✓
3. $42 + 324$ ✓
4. $564 - 42$ ✓
5. 252 ✓

$$\begin{array}{r} 35 \\ + 287 \\ \hline \end{array}$$
$$\begin{array}{r} 124 \\ + 52 \\ \hline 176 \end{array}$$

Super Spicy

1. C because 169 is the biggest number. So it needs to go at the top ✓

2. He has put the 6 in the hundreds column and the 3 is supposed to go in the ones not hundreds. ✓

3. Maria because you have to add the smallest number to the biggest number and even if it is easier to calculate. ✓

Challenge

1. He hasn't added 21 to 63 so he is wrong. ✓
2. Luis is wrong because $1 + 2 = 3$ and $40 + 30 = 70$.
 $0 \text{ add } 0 = 30$, $300 + 70 = 370$, $370 + 3 = 373$ ✓
3. It will be 278 because 278 is one less than 279 ✓

Year 3 have been adding numbers with up to three digits, using formal written methods of columnar addition.

Key Vocabulary:

Addition, add, more, and, make, sum, total, altogether, double, near double, tens boundary, hundreds boundary.

Year 4:

4.10.18

TBAT: add

Fluency

D 10 and 100 ✓

② 90 100 and 1000 ✓

③
$$\begin{array}{r} 6956 \\ + 2339 \\ \hline 8295 \end{array}$$
 8295. 9295 ✓

④
$$\begin{array}{r} 4957 \\ + 1353 \\ \hline 6310 \end{array}$$
 6310 ✓

⑤ A - 2 exchanges ✓
B - 3 exchanges ✓
C - 2 exchanges ✓

⑥ 1027 ✓
8420 6420
9096

Super Spicy

D
$$\begin{array}{r} 5936 \\ + 9635 \\ \hline 15571 \end{array}$$
 ✓

$$\begin{array}{r} 5369 \\ + 6396 \\ \hline 11765 \end{array}$$
 ✓

$$\begin{array}{r} 16953 \\ + 6693 \\ \hline 13646 \end{array}$$
 ✓

$$\begin{array}{r} 3956 \\ + 3966 \\ \hline 7922 \end{array}$$
 ✓

② on B they forgot to Add the 1 as an exchange. ✓

③

	1,000s	100s	10s	1s
+	●●●●	●●	●●●	●●●
+	●●	●●●	●●●	●●●●
	7	6	2	5

Challenge

1. No because in columns there might be more than 1 exchange in each column. ✓

2. No because the numbers that are already there can't be switched around if there wasn't numbers already there we could switch them. ✓

1. Yes he is correct because when adding 2 digit numbers the sum is 18 ✓

2. Yes he is correct because there are exchanges. ✓

Year 4 have been adding numbers with up to 4 digits using the formal written methods of columnar addition where appropriate.

Key Vocabulary

Addition, add, more, and, make, sum, total, altogether, double, near double, equals, is the same as, tens boundary, hundreds boundary, inverse.

Year 5:

AT-Addend subtract

8675 + 5735 = 6440 ✓

4410

45879 + 491 = 51370 ✓

4926 + 2994 = 4870 ✓

3247 + 4995 = 45795 ✓

49642 ✓

34675 + 5735 = 40410 ✓

19942 + 5735 = 25677 ✓

5a

28568 + 7764 = Savannah ✓

24679 + 9865 = 34544 = Oscar ✓

36218 + 9205 = 45423 = Darcy ✓

39589 + 7981 = 47570 = Berg ✓

So Lisa has the most.

134685 + 21074 = 155759 ✓

76 126218 - 19824 = 106394 = Katrina ✓

139647 + 17638 = 157285 = Mayjid ✓

8x

9a He forget to carry the 1 on 9+7 = 16

9b He forget to carry the 1 on 1+7 = 8

It should be 10 and carry the 1 ✓

Year 5 have been adding whole numbers with more than 4 digits, including using formal written methods.

Key Vocabulary

Addition, add, more, and, make, sum, total, altogether, double, near double, equals, is the same as, tens boundary, hundreds boundary, inverse, ones boundary, tenths boundary.

Year 6:

Super 5 play

1.
$$\begin{array}{r} 2451 \\ + 562 \\ \hline 3013 \end{array}$$

$$\begin{array}{r} 3567 \\ + 764 \\ \hline 4331 \\ \hline 111 \end{array}$$

they did their addition incorrectly and they've lined the numbers up wrong. They added diagonal.

2.
$$\begin{array}{r} 41 \\ 65214 \\ + 3475 \\ \hline 3049 \end{array}$$
 There are 9 different answers ✓

3.
$$\begin{array}{r} 24574 \\ + 36721 \\ \hline 81295 \end{array}$$

4.
$$\begin{array}{r} 1212 \\ + 4186 \\ \hline 5398 \end{array}$$

$$\begin{array}{r} 1213 \\ + 4185 \\ \hline 5398 \end{array}$$

$$\begin{array}{r} 1214 \\ + 4184 \\ \hline 5398 \end{array}$$

5. 6838 they need to save ✓

$$\begin{array}{r} 2453 \\ + 4385 \\ \hline 6838 \end{array}$$

$$\begin{array}{r} 2453 \\ + 4385 \\ \hline 6838 \end{array}$$

$$\begin{array}{r} 0999 \\ + 10900 \\ \hline 4385 \\ \hline 5615 \end{array}$$

Year 6 have been solving addition multi-step problems in contexts, deciding which operations and methods to use and why. They have also been using estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

Key Vocabulary

Addition, add, more, and, make, sum, total, altogether, double, near double, equals, is the same as, tens boundary, hundreds boundary, inverse, ones boundary, tenths boundary, estimate.