

		% confidence	Lucy	Cameron	Billy	Car	Dominic
1	Missing number (+ 346 = 892)	34%	0	0	0	1	1
2	Missing number (- 413 = 892)	32%	0	0	0	0	1
3	Place value times table (multiplication)	32%	0	0	0	0	1
4	Square numbers	0%	0	0	0	0	0
5	Place value addition (34,593 = + 500)	0%	0	0	0	0	0
6	Place value times tables (division)	32%	0	1	0	0	0
7	Add two fractions within 1 (denominators multiples)	32%	0	1	0	0	0
8	Short multiplication	32%	0	1	0	0	0
9	Subtract two fractions within 1 (denominators multiples)	62%	0	1	0	0	1
10	Cube numbers	62%	0	0	0	0	1
11	Subtract from a whole number (up to 2 dp)	32%	0	0	1	0	0
12	Place value times table (decimal multiplication)	62%	0	0	1	1	0
13	Column addition up to 1,000,000	82%	0	0	1	1	1
14	Place value times table (decimal division)	62%	0	0	0	0	1
15	Multiply by 10, 100 and 1,000- whole number	62%	0	0	0	0	1
16	Add two fractions with a total > 1 (denominators multiples)	32%	0	0	0	0	0
17	Fraction of number	0%	0	0	0	0	0
18	Subtract from a mixed number (denominators multiples)	0%	0	0	0	0	0
19	Multiply unit fraction by whole number	0%	0	0	0	0	0
20	Decimal subtraction (up to 2 dp)	0%	0	0	0	0	0
21	Add to a mixed number (denominators multiples)	0%	0	0	0	0	0
22	Multiply fraction by whole number	0%	0	0	0	0	0
23	Column addition- adding 3 numbers	0%	0	0	0	0	0
24	Add two mixed numbers (denominators multiples)	32%	0	0	0	0	0
25	Decimal addition (up to 2 dp)	62%	1	0	1	0	0
26	Short division (4 digit)	57%	0	1	0	1	0
27	Column subtraction up to 1,000,000	62%	0	1	0	1	0
28	Long multiplication (3 digit x 2 digit)	100%	0	1	0	1	0
29	Missing number fraction addition- same denominator	62%	0	1	0	1	0
30	Divide by 10, 100 and 1,000- whole number	62%	0	1	0	1	0
31	Short division (4 digit)	32%	0	1	0	1	0
32	Short division	62%	0	1	0	1	0
33	Long multiplication (4 digit x 2 digit)	32%	0	1	0	1	0
34	Multiply by 10, 100 and 1,000- decimal	62%	0	1	0	1	0
35	Multiply a mixed number by a whole number	62%	0	1	0	1	0
36	Divide by 10, 100 and 1,000-decimal	62%	0	1	0	1	0
		2	16	8	15	8	

Each of the arithmetic tests follow the same question pattern to allow for analysis and gap identifying. The accompanying excel spreadsheet has 5 identical question-level analysis (QLA) grids so that 5 tests can be recorded and the gap patterns followed over the course of a period of time. Each grid has space to record the names of the children at the top and the percentage confidence on each question. This will help to identify whole-class gaps and areas for development.

		Lucy				
		1	2	3	4	5
1	Missing number (+ 346 = 892)	0	1	0	1	0
2	Missing number (- 413 = 892)	0	1	0	1	1
3	Place value times table (multiplication)	0	0	0	1	1
4	Square numbers	0	0	1	1	1
5	Place value addition (34,593 = + 500)	0	0	1	1	1
6	Place value times tables (division)	0	0	1	1	1
7	Add two fractions within 1 (denominators multiples)	0	1	1	1	1
8	Short multiplication	0	1	1	1	1
9	Subtract two fractions within 1 (denominators multiples)	0	1	1	1	1
10	Cube numbers	0	1	1	1	0
11	Subtract from a whole number (up to 2 dp)	0	1	1	1	1
12	Place value times table (decimal multiplication)	0	1	1	1	1
13	Column addition up to 1,000,000	0	1	1	1	1
14	Place value times table (decimal division)	0	0	1	1	1
15	Multiply by 10, 100 and 1,000- whole number	0	0	1	1	1
16	Add two fractions with a total > 1 (denominators multiples)	0	0	1	1	1
17	Fraction of number	0	0	0	1	1
18	Subtract from a mixed number (denominators multiples)	0	0	1	1	1
19	Multiply unit fraction by whole number	0	0	0	1	1
20	Decimal subtraction (up to 2 dp)	0	0	0	1	1
21	Add to a mixed number (denominators multiples)	0	1	0	0	1
22	Multiply fraction by whole number	0	1	1	1	1
23	Column addition- adding 3 numbers	0	1	1	1	1
24	Add two mixed numbers (denominators multiples)	1	1	1	1	1
25	Decimal addition (up to 2 dp)	1	1	1	1	1
26	Short division (4 digit)	0	0	1	1	1
27	Column subtraction up to 1,000,000	0	0	1	1	1
28	Long multiplication (3 digit x 2 digit)	0	0	1	1	2
29	Missing number fraction addition- same denominator	0	0	1	1	1
30	Divide by 10, 100 and 1,000- whole number	0	0	1	1	1
31	Short division (4 digit)	0	0	1	1	2
32	Short division	0	0	1	1	1
33	Long multiplication (4 digit x 2 digit)	0	0	1	2	2
34	Multiply by 10, 100 and 1,000- decimal	0	0	1	1	1
35	Multiply a mixed number by a whole number	0	0	1	1	1
36	Divide by 10, 100 and 1,000-decimal	0	0	1	1	1
		2	14	29	36	37

The sixth sheet contains pupil overviews which automatically pull the data from the first 5 sheets. This allows an overview of each pupil over a period of time to see what their individual gaps might be. This also shows their progress over time and whether gaps are closed or remain an area of challenge.

On all sheets, the total marks for each paper are automatically calculated at the bottom of each column.

		% confidence	NAMES
1	Missing number (+ 346 = 892)	0%	

When you use the QLA grid, replace 'NAMES' with the first name and insert the rest of the names in the top row.