

MATHEMATICS Progression in mathematical fluency

Together we love, learn and flourish

'Let all you do be done with love' 1 Corinthians 16:14

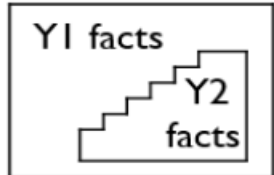
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
NUMBER AND PLACE VALUE	Count within 20 One more/less up to 10 Subitise numbers	Count within 100 One more/One less	10 more/less from any number	Count in 4's, 8's, 50's, 100's 10 more/less 100 more/less	Count in 6's, 7's, 9's, 25's, 1000's 1000 more/less Round to 10, 100, 1000 Count backwards through zero include negative numbers	Count in powers of 10 up to 1,000,000 Positive and negative numbers through zero	Round any whole number to required degree of accuracy
ADDITION AND SUBTRACTION	Know parts that make 1, 2 and 3	Number bonds and related facts to 5 Number bonds and related facts to 10 Addition facts within 10 Subtraction facts within 10 Doubles to 5+5	Number bonds and related facts to 20 Add/subtract across 10 (e.g. 8+7, 15-7) Recall doubles and near doubles (up to 20)	Use place value to scale known facts (e.g. 7+3=10, so 70+30=100)	Maintain all addition/subtraction facts Apply to formal written methods (e.g. column addition/subtraction)	Maintain fluency in all additive facts Apply number bonds to 10, 20, and 100 to decimals (e.g. 0.7 + 0.3 = 1)	Secure all bonds and complements (to 10, 20, 100, 1,000) Apply to decimals and fractions (e.g. 0.25 + 0.75 = 1, 3/8 + 5/8 = 1)
MULTIPLICATION AND DIVISION		Count in 2's Count in 5's Count in 10's Know odd/even numbers	Know 2× table and related division facts Know 5× table and related division facts Know 10× table and related division facts	Recall 3× table and related division facts Recall 4× table and related division facts Recall 8× table and related division facts	Recall 6× table and related division facts Recall 7× table and related division facts Recall 9× table and related division facts Recall 11× table and related division facts Recall 12× table and related division facts	Apply all multiplication/division facts fluently Recall factors, multiples, and prime numbers Begin to use facts with decimals (e.g. 0.3 × 4 =	Maintain fluency in all multiplication/division facts Apply flexibly in fractions, ratio, and algebra contexts Recall and use equivalence (e.g. 50% = 1/2 = 0.5)

Adding 1

Bonds to 10

Adding 10

Bridging/
compensating



Adding 2

Adding 0

Doubles

Near doubles

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

Year 2 facts

Year 3 facts

Year 4 facts

x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144