

## Mathematics Year 3

### Term 1

1. Counting forwards and backwards by 2s, 5s, 10s to 150 and by 1s to 1000.
2. Counting by 50s and 100s to 1000.
3. Doubling and halving
4. Odd and even numbers
5. Words to 99
6. Place value e.g.  
 $86 = 80 + 6$   
 $= 8 \text{ tens} + 6 \text{ units}$   
 $= (8 \times 10) + (6 + 1)$
7. Mathematical sentences and equations: manipulation of equations
8. Operations and processes: extending a number in tens and ones
9. Fractions: Introduce fraction symbol for  $\frac{1}{2}$  and  $\frac{1}{4}$
10. Applied number: measurement; graphs; area; perimeter

### Term 2

1. Place value to hundreds, tens and ones
2. Extended notation of numbers to 999.
3. Associative law of addition:  $(7 + 3) + 6 = 7 + (3 + 6)$  ...Do the brackets first.
4. Associative law of multiplication:  $(2 \times 3) \times 4 = 2 \times (3 \times 4)$
5. Creating equations using different signs.
6. Addition:  $6 + 3 =$        $60 + 30 =$        $600 + 300 =$
7. Addition:  $26 + 31 =$  (work this out horizontally by putting tens together and units together.)
8. Multiplication of 10s, e.g.  $20 \times 3$

### Term 3

1. Counting: patterns, e.g. 458, 459, 460 ....
2. Revise counting by 2s, 5s, 10s to 1000
3. Doubling and halving
4. Odds and evens
5. Words to 1000
6. Mathematical sentences and equations, e.g.  $10 + 4 = 2 \times 7$
7. Substitution, e.g.  $2 \times 7 - 4 = 10$  ( $2 \times 7$  is substituting for 14)
8. Number stories: writing a story based on a given equation
9. Addition using extended notation:  
 $268 = 200 + 60 + 8$   
 $+ 325 = 300 + 20 + 5$   
 $= 500 + 80 + 13$   
 $= 500 + 80 + 10 + 3$   
 $= 500 + 90 + 3$
10. Multiplication:

$$\begin{aligned}3 \times 31 &= 3 \times (20 + 1) \\ &= (3 \times 20) + (3 \times 1) \\ &= 60 + 3 \\ &= 63\end{aligned}$$

11. Subtraction using extended notation.

12. Division: Use concrete materials or bead frame – 27 how many 3s; 50 how many tens?

13. Fractions: e.g.  $\frac{3}{4}$  - Divide a circle into 4 parts. Colour 3.