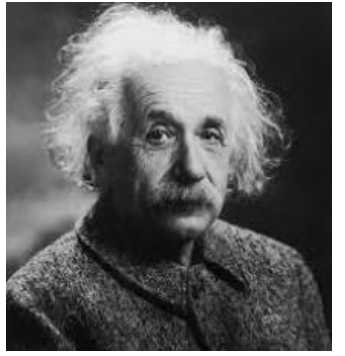




Maths Calculations Learning Journey



$$18b \div 3 = \frac{18b}{3} = 6b$$

Substitute/rearrange/simplify equations

Select appropriate calculation strategies

Algebra

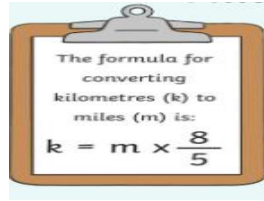
YEAR 7

Interpret a range of algebraic notation

Write and evaluate algebraic expression

Write and use formulae

Describe a pattern



Ordering Mathematical Operations					
B	O	D	M	A	S
Brackets (...)	Orders \sqrt{x} x^2	Division \div	Multiplication \times	Addition $+$	Subtraction $-$

YEAR 6

BODMAS

\div

Algebra

$$7 \overline{) 362} \begin{array}{r} 51 \\ 7 \times 51 = 357 \\ \hline 5 \end{array}$$

3/4 digit numbers with remainders

Apply knowledge of calculations

Formal method of long division

$$5 \overline{) 128} \begin{array}{r} 25 \\ 5 \times 25 = 125 \\ \hline 3 \end{array}$$

\div

Long multiplication

Factors/common factors

Formal written methods including multi-digit numbers to 1 million

With and without remainders

\times

$-$

$+$

YEAR 5

1, 2, 3 digit numbers by 10/100/1000

Square/cube numbers

Prime numbers

Multiples

Using a range of methods

Formal methods for all introduced

By 3, 4, 8, 6 and 9

Dividing 2 digit numbers

Mental strategies

By 7, 11 and 12 and all previous (3, 4, 8, 6, 9)

\times

\div

YEAR 4

$+$

$-$

\times

Three numbers

Subtract a 3 digit number from another

Multiply 2 digit numbers by 1 digit numbers

$$\begin{array}{r} 32 \\ \times 3 \\ \hline 96 \end{array}$$

Sum/total

Estimating

Formal method of + and - introduced

Add two 3 digit numbers

$+$

Bar modelling

Known linked facts

Subtract a 2 digit number from another

Add three 1 digit numbers

YEAR 3

\div

\times

$-$

$+$

YEAR 2

Divide by 2, 5, 10 (3 and 4)

Repeated addition

2, 5, 10 (3 and 4) times tables

Add two 2 digit numbers

Make and use number bonds

Known linked + and - facts

Subtract by crossing out/counting back

$$\begin{array}{|c|c|} \hline 5 & 2 \\ \hline + & 4 & 1 \\ \hline 9 & 3 \\ \hline \end{array}$$

\div

Sharing/equal groups

Add by counting on

$+$

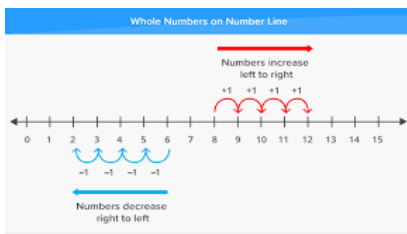
Solve multi-step problems

Make equal groups

Make doubles

YEAR 1

Number line subtraction



Number line addition

Count in groups of 2, 5 and 10

Addition/subtraction

Halve (objects/shapes)

Double amounts (objects)

Removing objects

Simple subtraction sentences

Simple addition sentences

Different ways to make 5/10

Combining parts

Ways to make a number

EYFS

0-5/10