

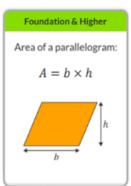
Additional Educational Needs Provision

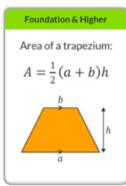
# "The only way to learn mathematics is to do mathematics"

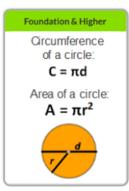
Name		G
Class		

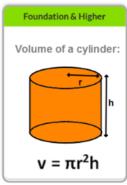
## **GCSE Maths**

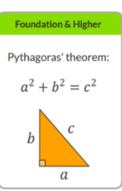
## AOA (9~1) need-to-know formulae

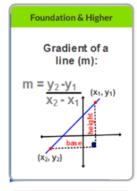


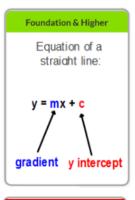


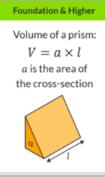


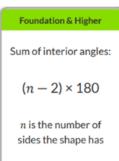


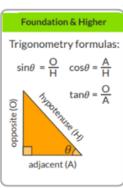


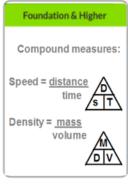


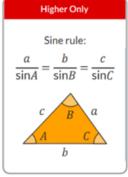


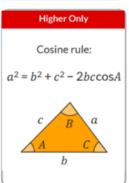


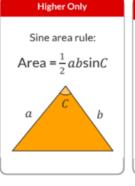












Higher Only
Quadratic formula:
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
It solves the quadratic equation:
$ax^2 + bx + c = 0$

Your GCSE Mathematics consists of skills in:	FOUNDATION TIER (%)	HIGHER TIER (%)
NUMBER	25	15
ALGEBRA	20	30
RATIO	25	20
GEOMETRY	15	20
PROBABILITY & STATISTICS	15	15

\*\* Each of the 3 papers will be a mix of question styles, from short, single -mark questions to multi-step problems. The mathematical demand will increase as you progresses through the paper.

## GCSE Exam Dates 2024

Paper 1 Non-calculator	16th May 2024 (33.3%)
Paper 2 Calculator	3rd June 2024 (33.3%)
Paper 3 Calculator	10th June 2024 (33.3%)

## Key Exam words

Estimate – Do not work out the exact answer. Round numbers to 1 significant figure.

Simplify – Collect the like terms together or cancel down a fraction.

Solve – Find the value(s) of (x) that makes the equation true.

Calculate – Working out is needed.

Factorise – Take out the common factors or factorise into two brackets if no common factor exists.

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Work out – A written or mental calculation is needed.

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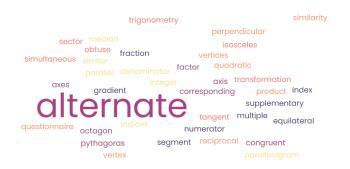
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Diagram NOT accurately drawn – Don't measure angles or sides.

Give reasons – Worded explanations are required

Solving Problems – Break the task down into simple steps.

## **Literacy**





## Additional Educational Needs Provision

# "The only way to learn mathematics is to do mathematics"



## FS & ELC

### **Maths**

TRIANGULAR

**NUMBERS** 

1, 3, 6, 10, 15, 21,

28, 36, 45, 55, 66,

78..

Percentage ÷ 100 = decimal 50% ÷ 100 = 0.5 Nove the decimal point 2 places to the

**CONVERT FDP** 

### Decimal x 100 = percentage

0.75 x 100 = 75% ve the decimal point 2 places to the right.

#### Percentage to fraction

50% = <u>50</u> = <u>5</u> = <u>1</u> 100 10 2

Fraction to decimal Numerator (top) ÷ denominator (bottom)



#### **PRIME NUMBERS**

A number that can only be divided by itself and 1

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 39 .....

**BIDMAS** 

Brackets ()

Indices<sup>2</sup>

Division ÷

Addition +

Subtraction -

Multiplication x

#### **SQUARE NUMBERS**

A number that is multiplied by itself

1, 4, 9, 16, 25, 36, 49, 64, 81, 100...

SPLIT USING RATIO

Split £100 into the

ratio 4:1

4+1=5

20 x 4 = £80 20 x 1 = £20

Add

**D**ivide

**Multiply** 

and

#### **CUBE NUMBERS**

A number that is multiplied by itself twice

1, 8, 27, 64, 125, 216, 343, 512, 729, 1000...

## **FRACTIONS**

3 of £70

Divide by the bottom

70 ÷ 7 = 10

(denominator). Multiply by the top (numerator)

10 x 3 = £30

## **PERCENTAGES**

Percent means out of a hundred.

20% of £50

<u>20</u> of £50 100

 $50 \div 100 \times 20 = £10$ 

#### **DECIMALS**

Putting decimals in increasing order:

0.1 0.12

#### **Rounding:**

Round 0.84<mark>623 to 2</mark> decimal places: 0.85

## UNITS AND CONVERSIONS

1cm = 10mm 1m = 100cm 1km = 1,000m 1kg = 1,000g

1L = 1,000ml

 $4 + 5 \times 8 =$ 

4 + 40 =

44

x 10 1cm = 10mm6cm = 60mm x 10

1cm = 10mm 7.5cm = 75mm÷ 10

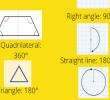
## PERIMETER & AREA 6cm

Perimeter: add all the sides 10 + 10 + 6 + 6 = 32cm Area: length x width  $10 \times 6 = 60$ cm<sup>2</sup>

## **ANGLES**



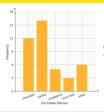
360°



## **GRAPHS**



Line graph: Show data that changes over time



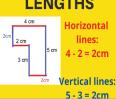
Bar graph: Show group: of data

## **VOLUME**



Volume: length x width x height  $10 \times 4 \times 2 = 80$ cm<sup>3</sup>

## **MISSING LENGTHS**



### 4, 8, 5, 3

Mean: 4 + 8 + 5 + 3 = 20 $20 \div 4 = 5$ 

Range: 8 - 3 = 5

## **MEAN AND RANGE**

Mean (average): add all the numbers, then divide by how

many there are

Range (variation): highest

minus lowest

## **PROBABILITY**



Probability of pink:

## Number of things you want **Total**



## Functional Skills Exam Papers

Paper 1 Non-calculator	30min—25%
Paper 2 Calculator	1h30—75%

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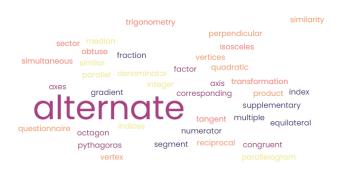
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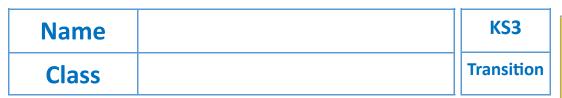
## Literacy





## Additional Educational Needs Provision

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Fraction to decimal Numerator (top) ÷ denominator (bottom)

1 ÷ 4 = 0.25

#### **PRIME NUMBERS**

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**BIDMAS** 

Brackets ()

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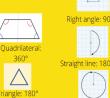
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## **ANGLES**



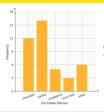
 $\triangle$ 



### **GRAPHS**



Line graph: Show data that changes over time



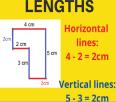
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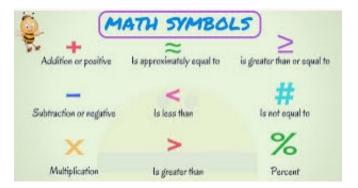
### **PROBABILITY**



Probability of pink:

## Number of things you want **Total**





## Key Exam words

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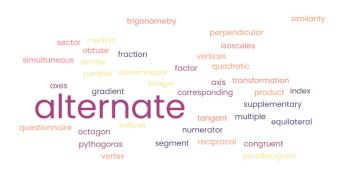
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## **Literacy**





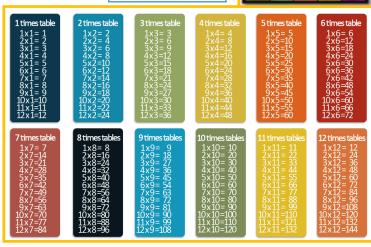
## Additional Educational Needs Provision

"The only way to learn mathematics is to do mathematics"

**Name** Stage 6 Class **Maths** 



	Mu	ltipl	y u	p to	4-digit by 2-digit
	1	3	Z		
		1	5	4	Start with the ones.
	×	   	2	6	154 × 6 = 924
·		9	2	4	154 × 20 = 3080
	3	0	8	0	3080 + 924 = 4004
	4	0	0	4	
	1	1			



#### **Short Division**

Start from the left.

		4	4	0	5	5 ÷ 12 = 0 r5 52 ÷ 12 = 4 r4
12	5	52	<sup>4</sup> 8	6	°O	48 ÷ 12 = 4
	 	<u> </u> 	 	 	<u> </u>	6 ÷ 12 = 0 r6

#### Reason from Known Facts

90 ÷ 10 = 9 so 90 ÷ 20 = 4.5 and 90 ÷ 5 = 18

16 × 9 = 144 so 1.6 × 9 = 14.4

4352 ÷ 17 = 256

so 256 × 18 = 4352+256 = 4608

3786 + 2850 = 6636

so 4786 + 2850 = 7636 and 2786 + 3850 = 6636

and 8636 - 3786 = 4850

Common factors: 1, 2, 3, 6

## Add and Subtract Whole Numbers

#### Column Method

4	5	8	6	4	Starting with the ones, add each
2	3	4	9	7	column in turn.
6	9	3	6	1	Regroup tens, hundreds, thousands,
	1	1	1		ten thousands
					as required.

5 67 134 12 3 4 7 6 2 2 6

Common Multiples

Starting with the ones, subtract each column in turn. Exchange tens. hundreds, thousands and/or ten thousands as required.

42

#### Common Factors

Factors of 48

1 2 3 4 8 12 16 24 48

Factors of 30

10 15 30

Multiples of 3

3 24 39

Multiples of 7

28 42

Common multiples: 21, 42...

### Mental Calculations and Estimation

#### Order of calculations:

50 × 34 × 2 = 50 × 2 × 34 = 100 × 34 = 3400

Money: £8.99 + £3.49 = £12.48

Use £9 + £3.50 = £12.50 and subtract 2p

# Square Numbers 1

-5 -3

Estimate – Do not work out the exact answer. Round numbers to 1 significant figure.

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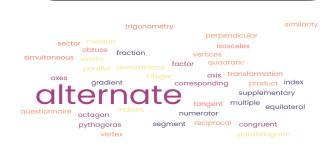
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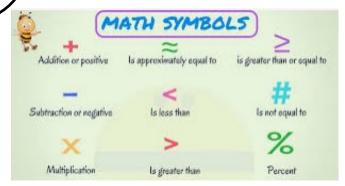
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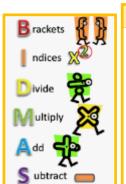


## Additional Educational Needs Provision

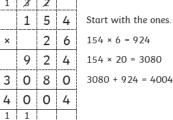
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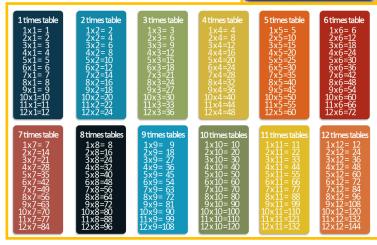
**Name** Stage 5 Class **Maths** 

PRIME NUMBERS										
2	3	5	7	11						
13	17	19	23	29						
31	37	41	43	47						
53	59	61	67	71						
73	79	83	89	97						



#### Multiply up to 4-digit by 2-digit 3 Z 1 5 Start with the ones. 4





#### **Short Division**

Start from the left.

		4	4	_	5	5 ÷ 12 = 0 r5 52 ÷ 12 = 4 r4
12	5	52	<sup>4</sup> 8	6	°O	48 ÷ 12 = 4
		 L	 	 	<u> </u>	6 ÷ 12 = 0 r6

#### Add and Subtract Whole Numbers

#### Column Method

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

Starting with the ones, add each column in turn. Regroup tens. hundreds, thousands, ten thousands as required.

	3	5	6 <b>7</b>	<sup>13</sup> /4	¹ <b>2</b> ′
-		3	4	7	6
	3	2	2	6	6

Starting with the ones, subtract each column in turn. Exchange tens. hundreds, thousands and/or ten thousands as required.

#### Reason from Known Facts

90 ÷ 10 = 9 so 90 ÷ 20 = 4.5 and 90 ÷ 5 = 18

16 × 9 = 144 so 1.6 × 9 = 14.4

4352 ÷ 17 = 256

so 256 × 18 = 4352+256 = 4608

3786 + 2850 = 6636

so 4786 + 2850 = 7636 and 2786 + 3850 = 6636

and 8636 - 3786 = 4850

#### Common Factors

Factors of 48

1 2 3 4 8 12 16 24 48

Factors of 30

5 10 15 30

Common factors: 1, 2, 3, 6

#### Common Multiples

Multiples of 3

3 18 24 39 42

Multiples of 7

28 14 42

Common multiples: 21, 42...

### Mental Calculations and Estimation

Order of calculations:

50 × 34 × 2 = 50 × 2 × 34 = 100 × 34 = 3400

Money: £8.99 + £3.49 = £12.48

Use £9 + £3.50 = £12.50 and subtract 2p

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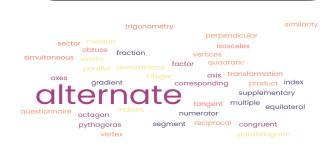
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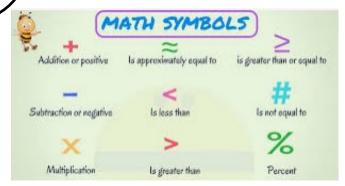
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## **Literacy**







## Additional Educational Needs Provision

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Name	Stage 4 Maths
Class	

#### 1 times table 1x1= 1 2x1= 2 3x1= 3 4x1= 4 5x1= 5 6x1= 6 7x1= 7 8x1= 8 9x1= 9 10x1=10 11x1=11 12x1=12

#### 2 times table 1x2= 2 2x2= 4 3x2= 6 4x2= 8 5x2=10 6x2=12 7x2=14 8x2=16 9x2=18 10x2=20 11x2=22 12x2=24

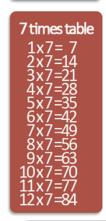


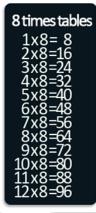
4 times table
1x4= 4
2x4= 8
3x4=12
4x4=16
5x4=20 6x4=24
7x4=28
8x4=32
9x4=36
10x4=40
11x4=44 12x4=48
12.84-46



5

6 times table
1x6= 6 2x6=12
3x6=18 4x6=24
5x6=30 6x6=36
7x6=42
8x6=48 9x6=54
10x6=60 11x6=66
12x6=72





-5

-6

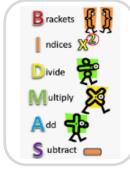
-4

-3

-2

10 times tables	2
1x10= 10	
2x10= 20 3x10= 30	
4x10= 40	
5x10= 50 6x10= 60	
7x10= 70 8x10= 80	
9x10= 90	
10×10=100 11×10=110	
12 x 10 = 120	

times tables	12 times tak
lx11= 11	1x12 = 12
2x11= 22	2x12 = 24
3x11= 33	3x12= 36
1x11= 44 5x11= 55	4x12= 48 5x12= 60
5x11= 55 5x11= 66	6x12 = 72
7x11= 77	7x12 = 84
3x11= 88	8x12= 96
0x11= 99	9x12=108
0x11=110	10x12=120
x 11 = 121	11 x 12 = 132
2x11=132	12×12=14



-10

		Squ	iare	Ν	ur	n	b	е	r	6					
			4	2			52					_	4	5	6
	22	32		3 4	8	2	9	_	5 10	- 1	-	1 9 4 15	10		
12	1 2	1 2 3	5 A 9 10	2 Ø 11 12		12 17	13 18			- 1	-	0 21 6 27	-	_	24 30
1×1=1	3 A 2x2+4	3×3=9	13 14		21	22 5e	29 5=2		25	3	1 3	2 33 6x6	34		36

-1

0

1

2

3

PK.	LME	NU	MB	ERS
2	3	5	7	11
13	17	19	23	29
31	37	41	43	47
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8

7

10

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Measure – Use a ruler or protractor.

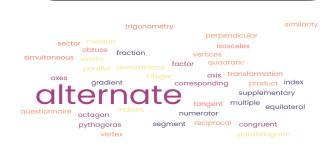
**Draw accurately/Construct** – Use a ruler and protractor, lengths and angles must be accurate.

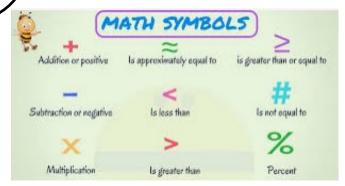
Diagram NOT accurately drawn – Don't measure angles or sides.

Give reasons – Worded explanations are required

Solving Problems – Break the task down into simple steps.

## **Literacy**







## Additional Educational Needs Provision

# "The only way to learn mathematics is to do mathematics"

Name	Stage 3 Maths
Class	

#### 1 times table 1x1= 1 2x1= 2 3x1= 3 4x1= 4 5x1= 5 6x1= 6 7x1= 7 8x1= 8 9x1= 9 10x1=10 11x1=11 12x1=12

#### 2 times table 1x2= 2 2x2= 4 3x2= 6 4x2= 8 5x2=10 6x2=12 7x2=14 8x2=16 9x2=18 10x2=20 11x2=22 12x2=24

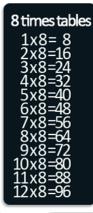


4 times table
1x4= 4
2x4 = 8
3x4 = 12
4x4=16
5x4=20
6x4=24
7x4=28
8x4=32
9x4=36
10x4=40
11 x 4 = 44
12×4=48
1274-40

times table  1x5= 5 2x5=10 3x5=15 4x5=20 5x5=25 6x5=30 7x5=35 8x5=40 9x5=45 10x5=50 11x5=55 12x5=60	

6 times table 1x6= 6 2x6=12 3x6=18 4x6=24 5x6=30 6x6=36 7x6=42 8x6=48 9x6=54 10x6=60
10x6=60 11x6=66 12x6=72





-5

-6

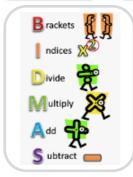
-4

-3

-2

10 times tables
1x10= 10
2x10= 20 3x10= 30
4x10= 40
5x10= 50 6x10= 60
7x10= 70
8x10= 80 9x10= 90
10 x 10 = 100
11×10=110  12×10=120

times tables  1 x 11 = 11  2 x 11 = 22  3 x 11 = 33  4 x 11 = 44  5 x 11 = 55  6 x 11 = 66  7 x 11 = 77  8 x 11 = 88  9 x 11 = 99  0 x 11 = 110	12 times t 1x12 = 2x12 = 3x12 = 4x12 = 5x12 = 6x12 = 7x12 = 8x12 = 9x12 =1 10x12 =1
0x11=110 1x11=121 2x11=132	10×12=1 11×12=1 12×12=1



-10

		Squ	ıa	re	9	Ν	lu	r	n	b	е	r	S						
										52						6	2		
				4	9					D.				1	2	3	4	5	
		32		4			- [	1.	2	3	4	5		ÿ	1	Ŷ	10	11	12
	22	3"	1	2	3	A	- 1	6	7		٠	10		13	14	15	16	17	18
12	2.	1 2 3	5	6	7	0		11	12	13	14	15		19	20	21	22	23	24
	1 2	4 4 6	4	10	11	12		16	17	18	19	20		25	26	27	28	29	30
1	3 4	7 0 9	13	14	15	16		211	22	29	24	25		31	32	33	34	35	26
1×1=1	2×2+4	3x3=9		4×4	-16				So	5=3	25					6+6	-34		

-1

0

2

3

PR:	LME	NU	MB	ERS
2	3	5	7	11
13	17	19	23	29
31	37	41	43	47
<b>5</b> 3	59	61	67	71
73	79	83	89	97

7

10

Estimate – Do not work out the exact answer. Round numbers to 1 significant figure.

Simplify – Collect the like terms together or cancel down a fraction.

Solve – Find the value(s) of (x) that makes the equation true.

Calculate – Working out is needed.

**Factorise** – Take out the common factors or factorise into two brackets if no common factor exists.

Expand – Multiply out the bracket and simplify if needed.

Work out – A written or mental calculation is needed.

Write down – Written working is not required.

Measure – Use a ruler or protractor.

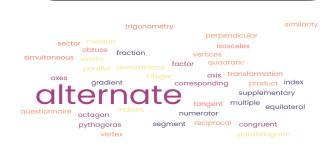
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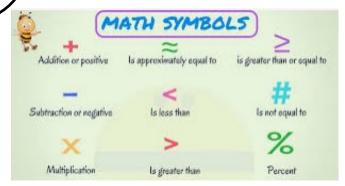
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Give reasons – Worded explanations are required

Solving Problems – Break the task down into simple steps.

## **Literacy**



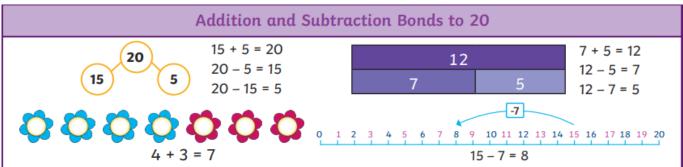


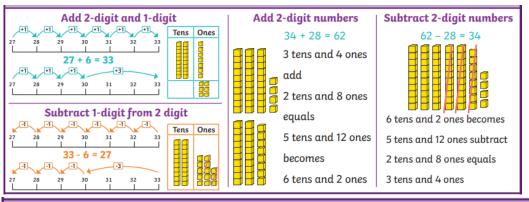


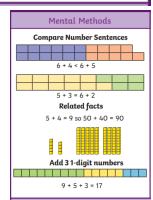
# Additional Educational Needs Provision

# "The only way to learn mathematics is to do mathematics"

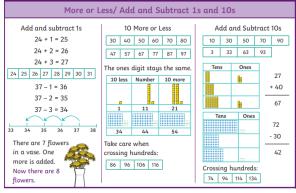


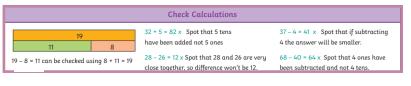


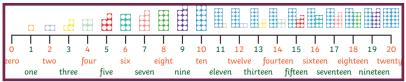




# Addition and Subtraction Bonds to 100 2 + 8 = 10 so 20 + 80 = 100 Addition and Subtraction Bonds to 100 32 + 68 = 100 3 tens and 2 ones + 6 tens and 8 ones = 9 tens and 10 ones = 10 tens = one hundred







## **Literacy**

Estimate – Do not		Add						
work out the ex-	hundreds	Total						
act answer.		Make						
Round numbers	tens	Plus						
to 1 significant		Sum						
figure.	ones	More						
Simplify – Collect	Oites	Altogether						
the like terms to-		Difference						
gether or cancel	zero	Leave						
down a fraction.		Subtract						
Solve – Find the	place value	Difference between						
value(s) of (x)								
that makes the	greater than	Less						
equation true.	greater than	Minus						
Calculate –		Take away						
Working out is	less than	Mentally, Orally						
needed.		Column Addition						
Factorise – Take	order	Column Subtraction						
out the common		Estimate						
factors or	partition	Inverse operation						
factorise into two	,	Solve problems						
brackets if no	digit	Number facts						
common factor	uigit	Place Value						

**Expand** – Multiply out the bracket and simplify if needed.

exists.

Work out – A written or mental calcula-

