Addition and Subtraction

Knowledge Organiser

Key Vocabulary

add total

plus

sum

more

altogether

difference

subtract

less

minus

take away

column addition

column subtraction

exchange

estimate

inverse operation

solve problems

number facts

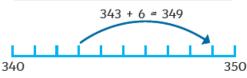
place value

Addition and Subtraction Methods

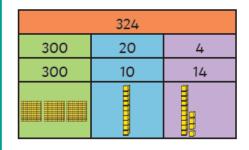
3-digit and 1-digit numbers

Not crossing 10s

Hundred	Ten	Ones
•	000	0000



Crossing 10s (Exchanging)



$$316 + 8 = 324$$



3-digit and 2-digit numbers

Add and subtract tens

Hundred	Ten	Ones
00	000	•

$$451 - 4 \text{ tens} = 411 (5 - 4 = 1)$$

Crossing 10s (Exchanging)

$$258 + 80 = 338$$

- · Column method
- · Count in 10s mentally
- · Add 100, subtract 20

Crossing 10 and 100

368	368	368
+73	+73	+73
1	41	441
1	1(1)	<u>(1)</u> 1

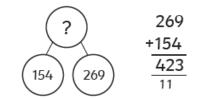
3/1 4/41	3131 441	313 1 441
-73	- 73	√ 73
8	68	368

3-digit numbers

Not crossing

Hundred	Ten	Ones
000	0 0 0 0 0 0 0 0 0 0	0000

Crossing 10s (Exchanging)



514				
268	?			

Add and Subtract 100s

Hundred	Ten	Ones
		4000

Fractions Knowledge Organiser Key Vocabulary **Recognising Fractions Comparing Fractions** numerator Numerator How many equal parts of the whole denominator are needed? unit fraction Denominator How many non-unit fraction equal parts are in the whole? equivalent **Equivalent Fractions** 1 halves $\frac{1}{2}$ thirds is equal to... quarters = $\frac{2}{4}$ = $\frac{3}{6}$ = $\frac{4}{8}$ = $\frac{5}{10}$ = $\frac{6}{12}$ fifths sixths eighths is equal to... tenths decimal tenths 10 $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20}$ $\frac{1}{11}$ $\frac{1}{11}$

Key Vocabulary

metre (m)

centimetre (cm)

millimetre (mm)

height

length

width

perimeter

further/furthest

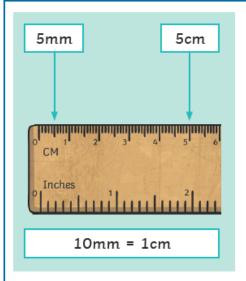
higher/highest

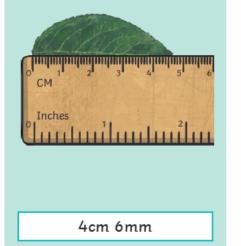
longer/longest

shorter/shortest

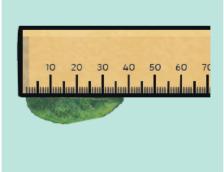
taller/tallest

Measure Length



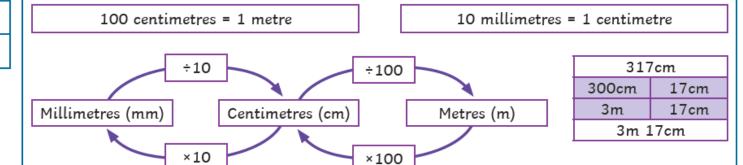






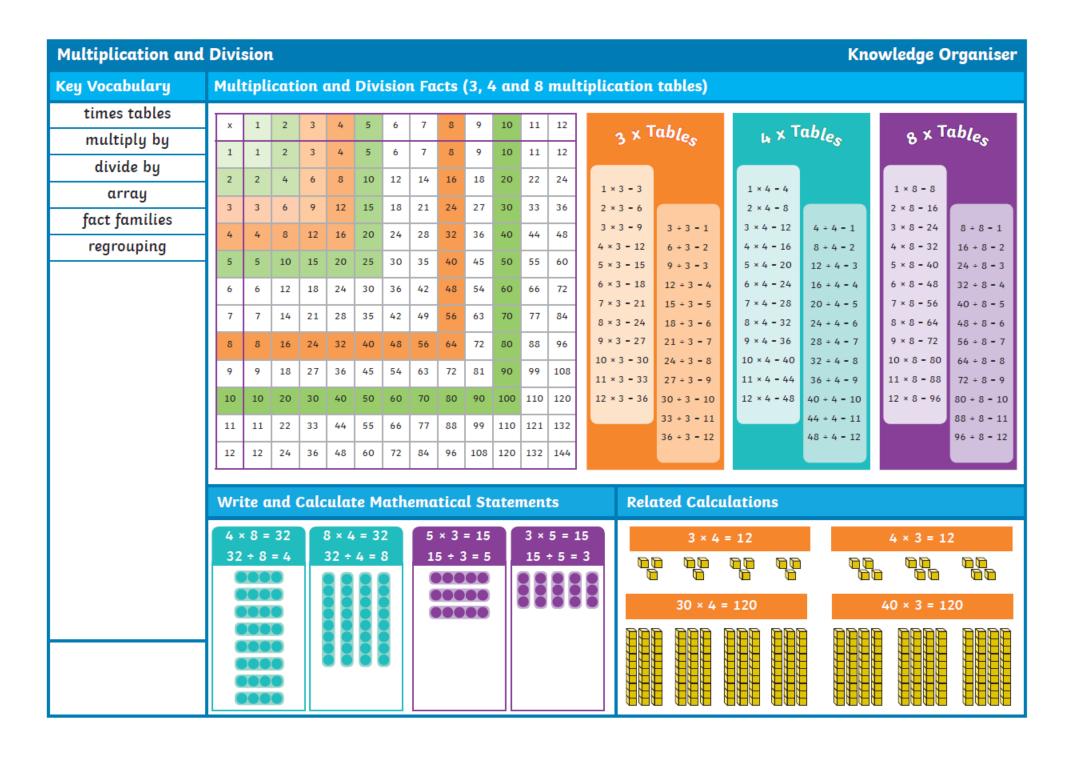
38mm

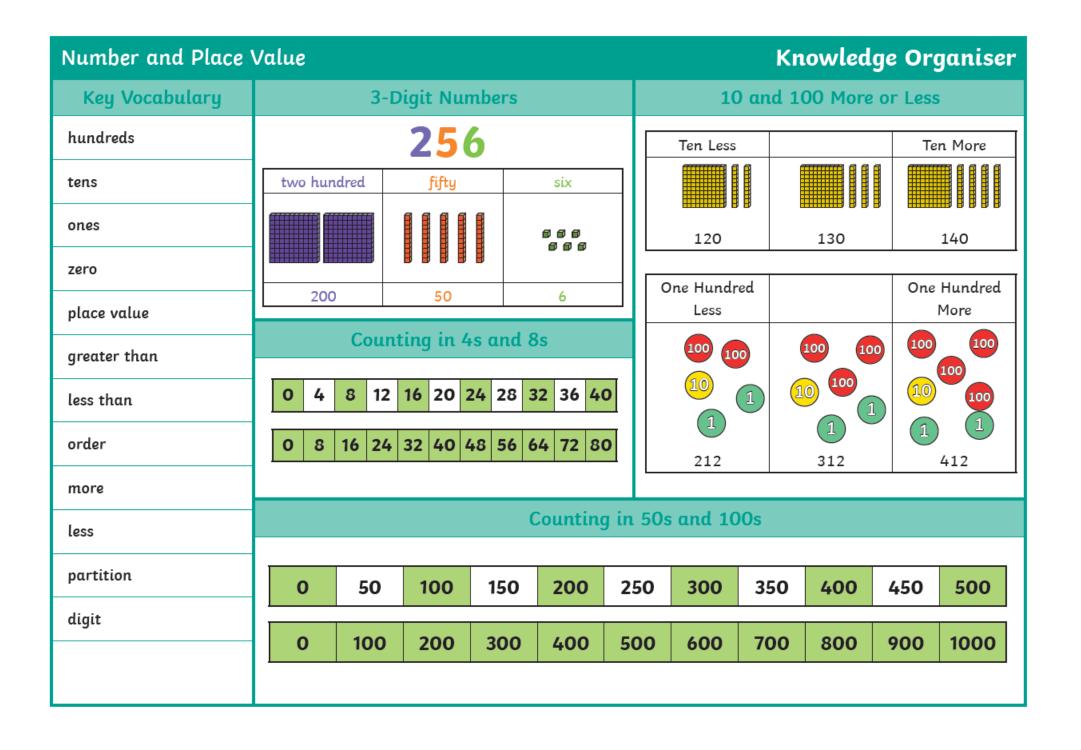
Equivalent Length



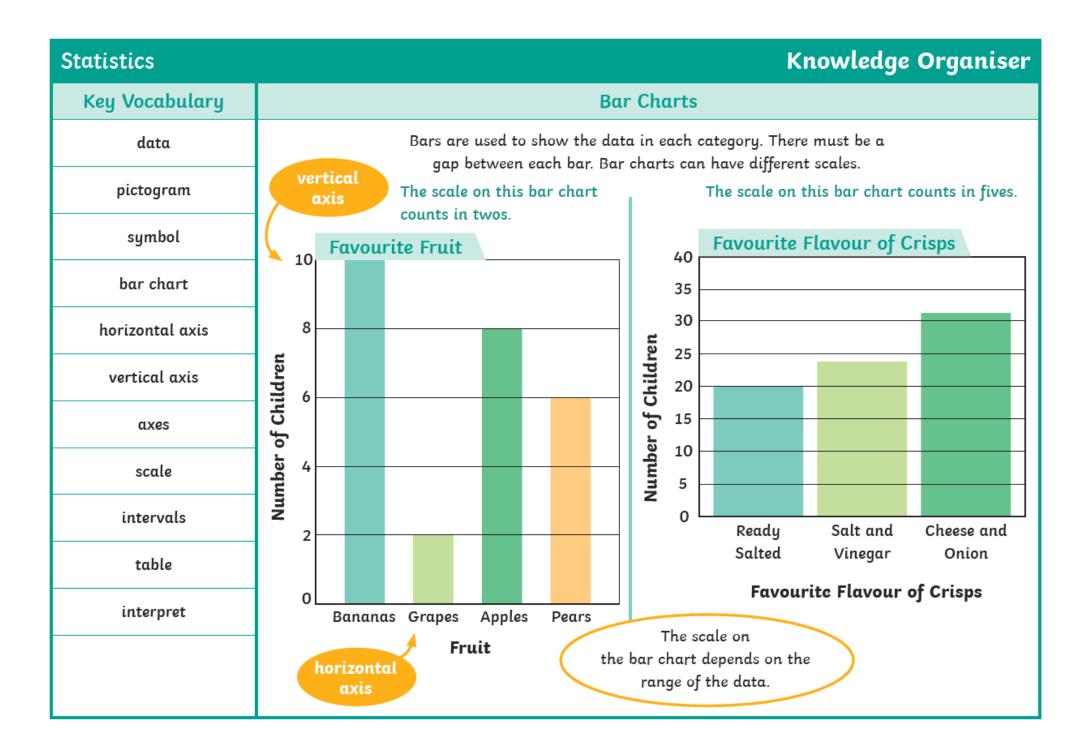
Mass and Capacity Knowledge Organiser					
Key Vocabulary	Measure and Compare Mass				
mass	Scales can be used to measure kilograms.				
gram	A gram is a unit of measurement that is A kilogram is a unit of measurement that is greater				
kilogram	used to measure the mass of something. than a gram. It is also used to measure the mass of something.				
capacity	Grams can be written as g . Kilograms can be written as kg . 1000g = 1kg To compare mass, we can use				
volume	1000g = 1kg To compare mass, we can use the words 'heavier' and 'lighter'.				
millilitre	Measure and Compare Capacity Capacity is the amount of liquid a container can hold.				
litre	Volume is how much liquid is in the container. Measuring jugs can be used to measure larger volumes.				
lighter	Measuring cylinders can be used to measure smaller volumes. Greater volumes are measured in litres. Litres can be written as l.				
heavier	Smaller volumes are measured in millilitres.				
	Millilitres can be written as ml. To compare capacities, we can use the word 'full'.				

Money Knowledge Organiser						
Key Vocabulary	UK Coins					
amount						
change	1p 2p	5p 1	© 20p	50p	£1	£2
coin	one penny coin two pence coir	ı five pence coin ten per	nce coin twenty pence co	in fifty pence coin	one pound coin	two pound coin
combinations	UK Notes					
convert	£5 & 2000 600 5	£10 Minit of Couloms	£20 Sauk o Single	20	£50 Strik or Signal	33
note	Eve Pounds	Dounds	All Sound	20	Shin Tound	
pence	£5 five pound note	£10 ten pound note	£20 twenty pour		£50 fifty pound	
penny		·				
pounds	Pounds and Pence			Convert Pounds	and Pence	
value		£50 Charles Ch		120 pence		
	£3 and 25 pence	£52 a		100 pence is £1 120 pence is £1		



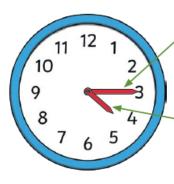


Properties of Shapes Knowledge Organiser Key Vocabulary Turns and Angles quarter turn Angles can be used as a description of a turn. half turn three-quarter turn angle right angle acute obtuse $\frac{3}{4}$ turn $\frac{1}{4}$ turn $\frac{1}{2}$ turn horizontal clockwise anticlockwise 1 turn vertical parallel An angle is created when two straight lines meet at a point or intersect. perpendicular Acute Angle Obtuse Angle Right Angle polygon Less than 90° Greater than 90° and two-dimensional less than 180° three-dimensional flat face curved surface edge curved edge Type of Lines vertex horizontal vertical parallel perpendicular vertices apex



Time Key Vocabulary 12-hour time 24-hour time Roman numerals analogue digital hours minutes seconds o'clock half past quarter past quarter to midday midnight noon

Analogue and Digital Clocks



Minute Hand

The long hand points to the minutes past or the minutes to the hour.

Hour Hand

The short hand points to the hour. If this hand is pointing between hours, it is either past the earlier hour or to the later hour.





twelve o'clock



Knowledge Organiser

12:15 quarter past

twelve

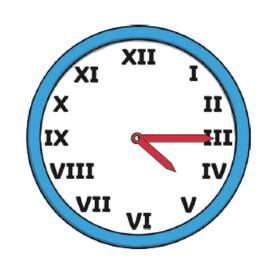




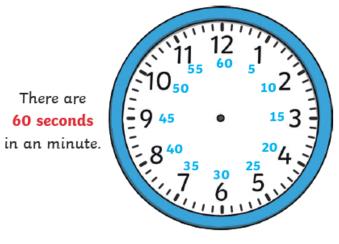


quarter to

Time and Roman Numerals



Hours, Minutes and Seconds



There are
60 minutes
in an hour.