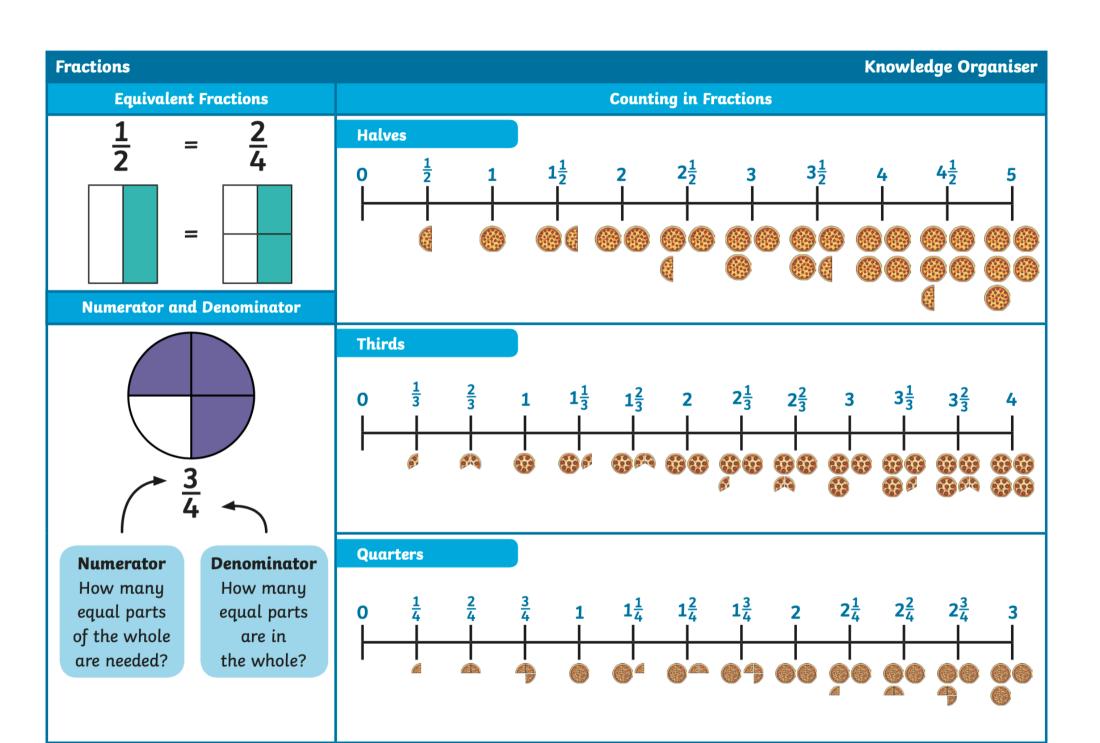
Fractions	Knowledge Organiser					
Key Vocabulary	Recognising Unit Fractions					
fraction	Half	Quarter				
part	A whole split into two equal parts. $\frac{1}{2}$	A whole split into				
whole	two equal parts.	four equal parts.				
equal						
share	$\frac{1}{2} \text{ of }$ $8 = 4$	$\frac{1}{4} \text{ of}$ $12 = 3$				
half	8 = 4	12 = 3				
quarter	Third	Non-unit Fractions				
third	A whole split into	2				
equivalent	three equal parts. $\frac{1}{3}$	<u>2</u> 3				
numerator						
denominator	$\frac{1}{3} \text{ of } 6 = 2$	3 4				



Key Vocabulary

length

long

short

height

tall

measure

ruler

tape measure

metre stick

centimetre (cm)

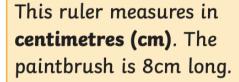
metre (m)

compare

order

Measuring in Centimetres

Measure from zero.



This ruler is to scale.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Measuring in Metres



We can measure the length or height of larger objects in **metres (m)**.

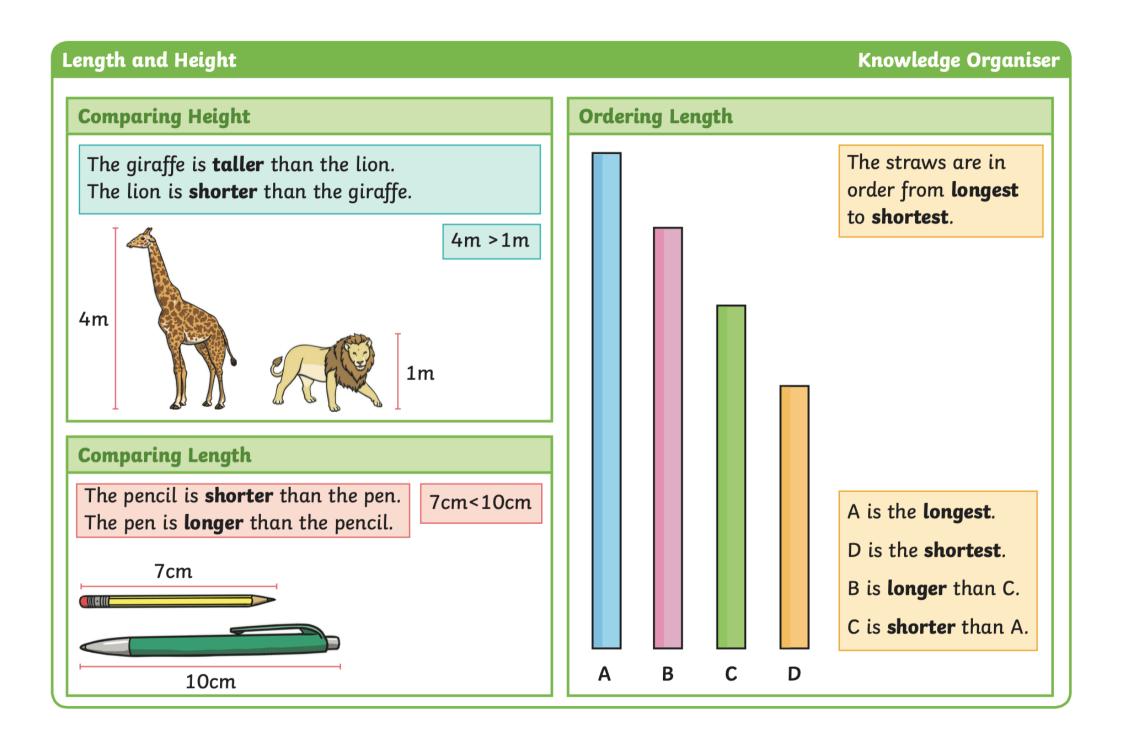
The girl is 1m and 20cm tall.



Ocm 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

We can use metre sticks, trundle wheels or tape measures.

1 metre = 100 centimetres



Mass, Capacity and Temperature

Knowledge Organiser

Key Vocabulary

mass

gram

kilogram

lighter

heavier

capacity

volume

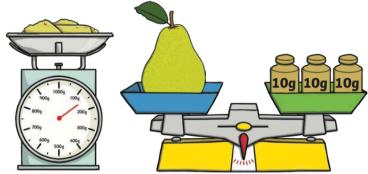
millilitre

litre

temperature

Celsius

degrees



We use scales to measure grams.

A gram is a small unit of measurement that we use to measure how heavy or light something is.

We can write gram as g.

We measure the following using grams:

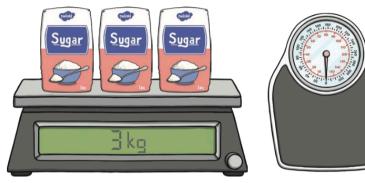






15g > 10g





We also use scales to measure kilograms.

A kilogram is a larger unit of measurement that we use to measure how light or heavy something is.

We can write kilogram as kg.

We measure the following using kilograms:









1kg < 3kg

Mass, Capacity and Temperature

Knowledge Organiser

Capacity

Capacity is the amount of liquid a container can hold.

Volume is how much liquid is in the container.

Millilitres



We can use a measuring cylinder to measure very small volumes.



We measure these in millilitres. We write this as ml.







Litres



We can use a jug to measure larger volumes.

We measure these in litres. We write this as l.

1000ml = 1l





25ml < 250ml 10l > 2l

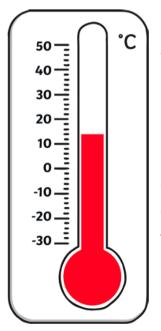
Temperature

Temperature is a measure of heat.

Thermometers are used to measure temperature.

We usually measure temperature in **degrees** Celsius (°C) but some parts of the world use degrees Fahrenheit (°F).

We can measure the temperature of air, liquids or objects using a thermometer.



Most thermometers have small tubes and a bulb of liquid at the bottom. The hotter the temperature, the higher the liquid from the hulb rises in the tube. There are markings along the side of the glass tube that show the temperature.

Key Vocabulary

pence

pound

coin

note

total

amount

change

difference

price

cost

pay

owe

Pence









5p

2 pence 5 pence 1 penny









50p

10 pence 20 pence 50 pence

Pounds

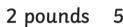


1 pound



















£50

10 pounds 20 pounds 50 pounds

£20

Pounds and Pence









Equal Amounts







$$£1 = £1 = £1$$

Compare Amounts















£9 and 50p < £10

Find the Total





Lucy bought a teddy bear and some playing cards.







45p

14p

=

59p

Timek bought two books.





















Find the Change









Lucy bought a jigsaw with a 50p coin. How much change did she get?

> 50p 40p



50p - 40p = 10p



Timek bought a plant and a toy car. He paid with a £1 coin. How much change did he get?

80p

68p

12p

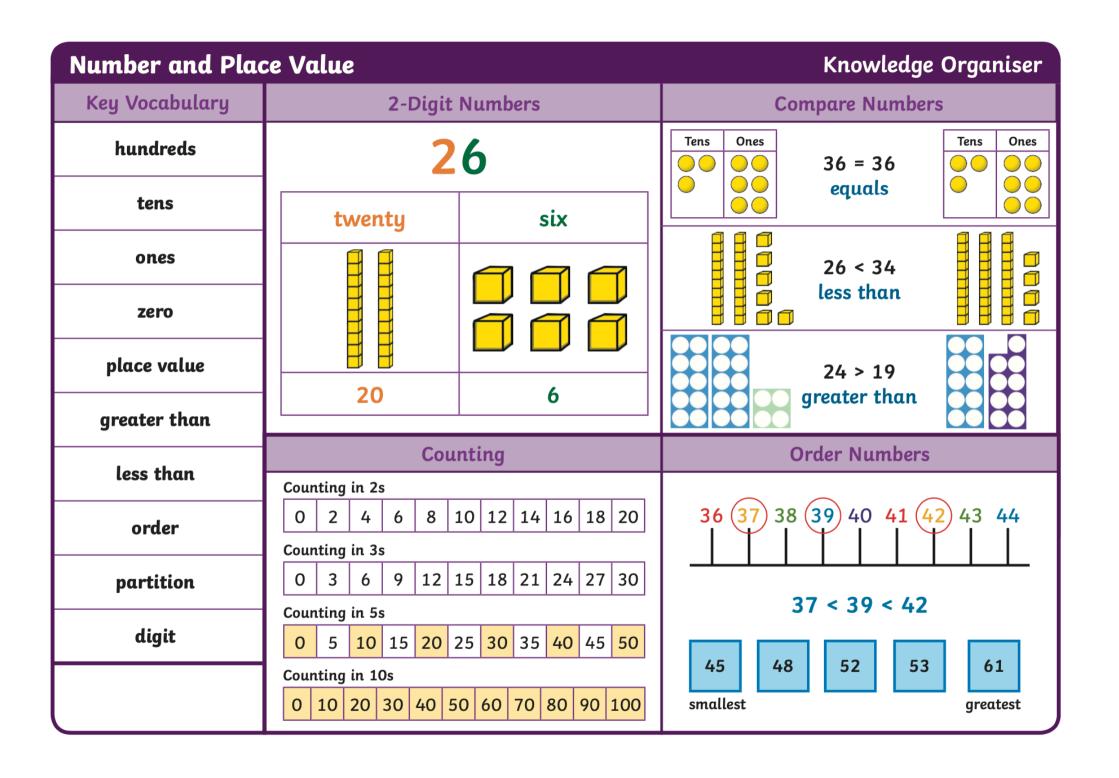
£1

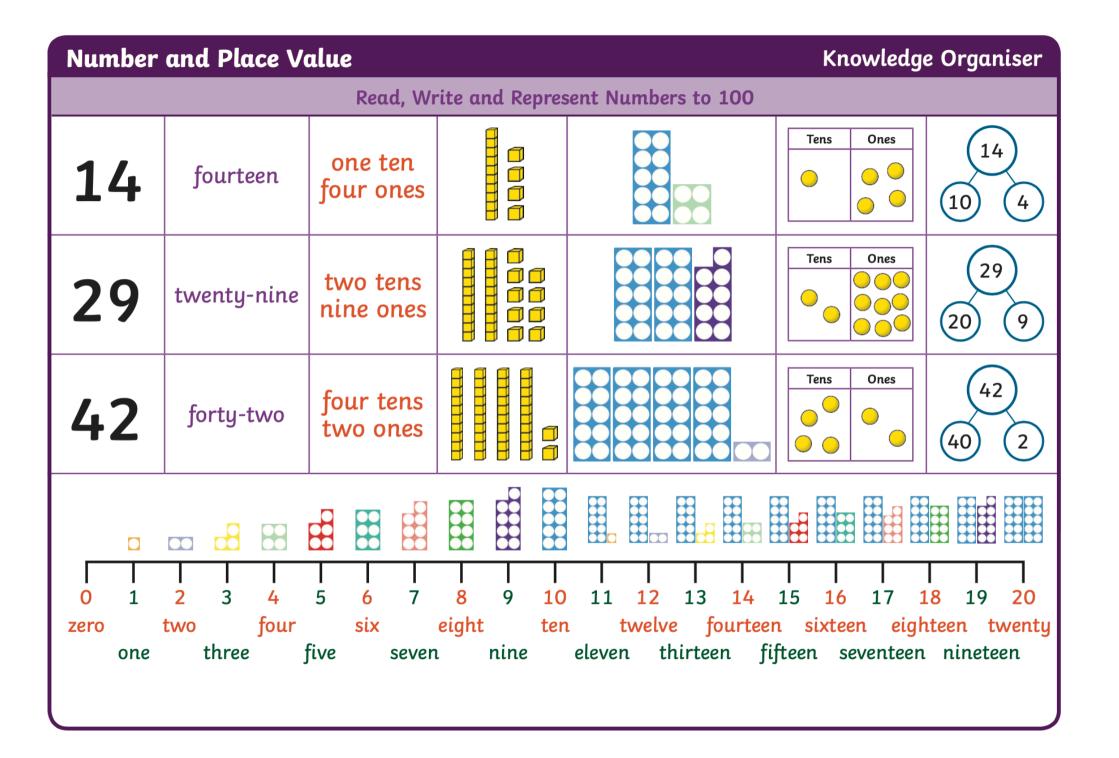
80p



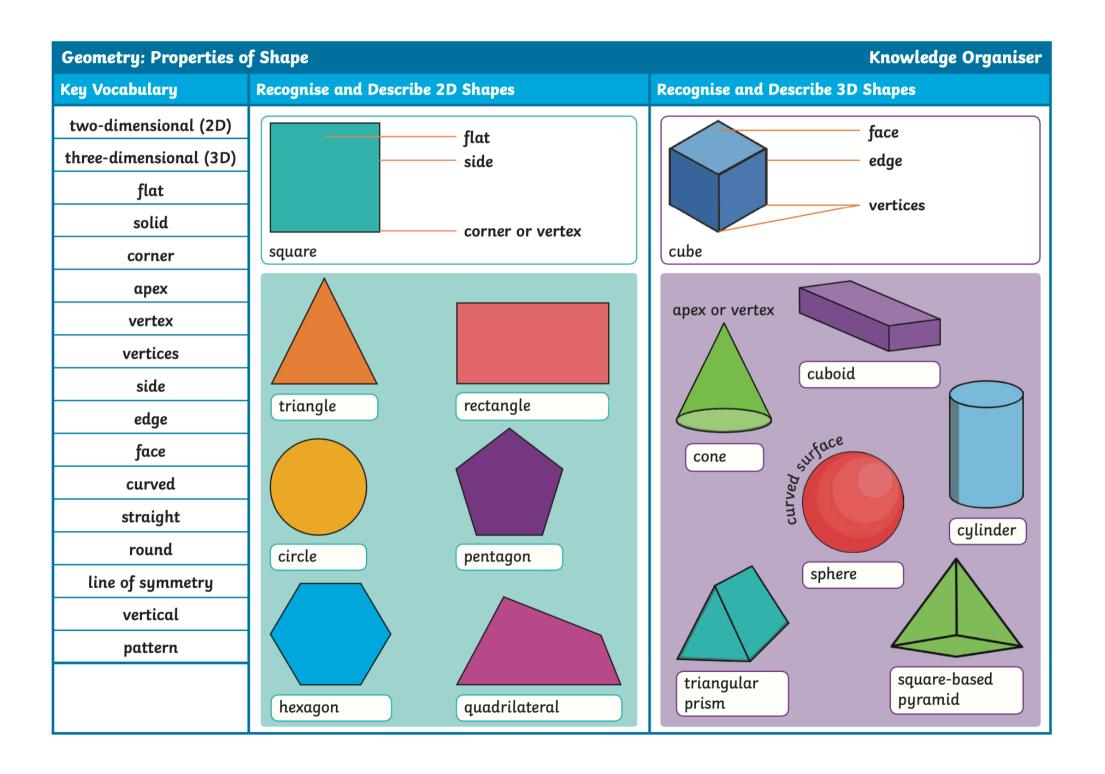
£1 - 80p = 20p







Knowledge Organiser Position and Direction Key Vocabulary **Describing Straight-Line Movement** forwards north **backwards** N left right left right W Left and Right east north west The hand that makes south an L shape is the east left hand. south west **Describing Turns** quarter turn anticlockwise clockwise half turn three-quarter turn clockwise half turn quarter turn anticlockwise pattern If the turn is in the same direction as the sequence hands of a clock, it is clockwise. If the turn is in the opposite direction to the full turn hands of a clock, it is anticlockwise. three-quarter turn



Statistics						Knowl	edge	Organiser
Key Vocabulary	Tally Charts			Block Diagram				
data	Tally marks look	like this:	A block diagram represents data using blocks. One block represents one item.					
interpret			l IW	In this block	10			
key				diagram, the	9			
tally chart	The fifth mark goes across diagonally, like a gate.			is vertical, shows the number	7			
pictogram	A tally chart is tally marks.	one way of coll	of items.	5				
block diagram	Eye Colour	Tally	Total		3			
table	brown	ЖП	6		2			
	blue	<u>Ж</u> Ш	8		1			
total	green		3	Dog Cax Snake at Horse Goose				
	grey hazel	 	4		1		re '	% %
compare	nazei	ИП	5	In this block diagram, the x-axis , which is				
symbol	horizontal, shows the types of items.							
				The blocks can go v	verticall	y or hor	izonto	illy.

Time	Knowledge Organiser								
Key Vocabulary	O'Clock and Half Past								
time	half past twelve	one o'clock	half past one	two o'clock	half past two	three o'clock	half past three	four o'clock	
clock	11 12 1	11 12 1	11 12 1	11 12 1	11 12 1	11 12 1	11 12 1	11 12 1	
hours	8 7 5 4.	8 4. 7 6 5	8 7 6 5	8 4. 7 6 5	8 7 6 5	8 7 6 5 4.	8 7 5 4	8 7 6 5 4.	
minutes	half past four	five o'clock	half past five	six o'clock	half past six	seven o'clock	half past seven	eight o'clock	
hand	11 12 1	11 12 1	11 12 1	11 12 1	11 12 1	11 12 1	11 12 1	11 12 1	
o'clock	8 7 6 5 4	-9 3- -8 4.	8 7 6 5	-9 3- -8 4. 7 6 5	8 7 6 5	-9 3- -8 4. 7 6 5	-9 -8 7 6 5	7 6 5 7 6 5	
half past									
quarter past	half past eight	nine o'clock	half past nine	ten o'clock	half past ten	eleven o'clock	half past eleven	twelve o'clock	
quarter to	(10 2') -9 3- -8 4	10 2 3-	10 2 3- 8 4-	10 2 3-	10 2 3- 8 4 4	10 2 3-	10 2 3- 8 4 4	(10	
five minutes	7 \$ 5	7 6 5	7 6 5	7 6 5	7 6 5	7 6 5	7 6 5	7 6 5	
duration	Past and To								
shorter	11 ¹	2 1	11 12 1 10 2 9 3 5 8 4 7 6 5		11 12 1 10 2 19 3 5 8 7 8 5		11 12 1		
longer	3 10 9 8	2 3 3 5 5 A					3 10 9 4 8	9 2 3 5 8 4	
	7 6	5					7 6 5		
	o'cl	o'clock quarter past			half past		quarter to		

Time **Knowledge Organiser** O'Clock and Half Past Telling Time to 5 Minutes Find Durations of Time Start Duration End 5 to 5 past 10 past 10 to auarter quarter past 20 20 past 20 to 20 minutes has passed. 25 past 25 to **Compare Durations of Time** There are 60 minutes in an hour. 30 minutes 2 hours A swimming A visit to the cinema **Hour Hand** The short hand points to the hour. 20 minutes 1 second If this hand is The time it takes A favourite pointing between Minute Hand TV programme to do 1 star jump hours, it is either The long hand past the earlier points to the hour or to the minutes past or to 3 hours 5 days later hour. the hour. A nice long walk A week at school Compare the time using the There are **24 hours** in a day. vocabulary 'longer' and 'shorter'.