

#### Key Vocabulary

length

long

short

height

tall

measure

ruler

tape measure

metre stick

centimetre (cm)

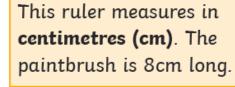
metre (m)

compare

order



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

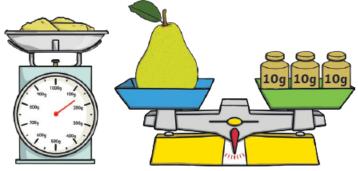
litre

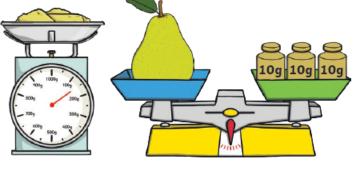
temperature

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 q.

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

## Key Vocabulary

pence

pound

coin

note

total

amount

change

difference

price

cost

pay

owe

#### Pence



1p





10p



20p

10 pence 20 pence 50 pence

#### **Pounds**









£2

2 pounds

£10

£20

10 pounds 20 pounds 50 pounds

## Pounds and Pence









### **Equal Amounts**





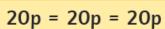




5p

5 pence

50p













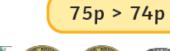
# **Compare Amounts**



£5

5 pounds

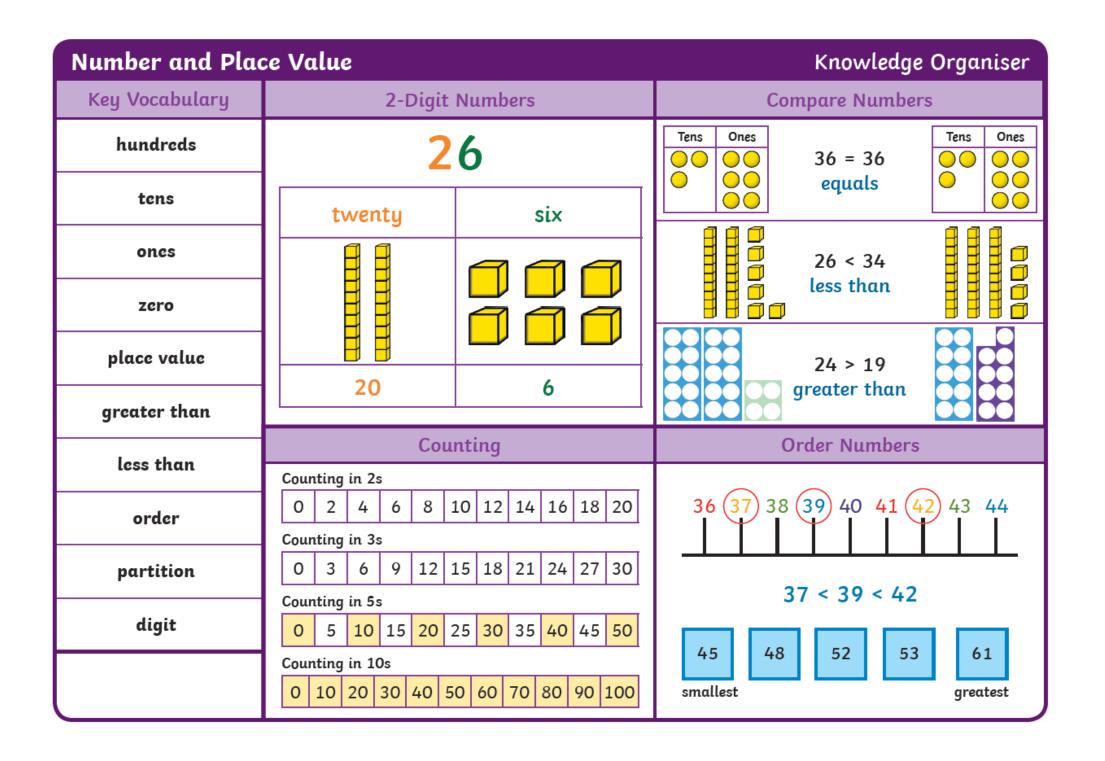
£50



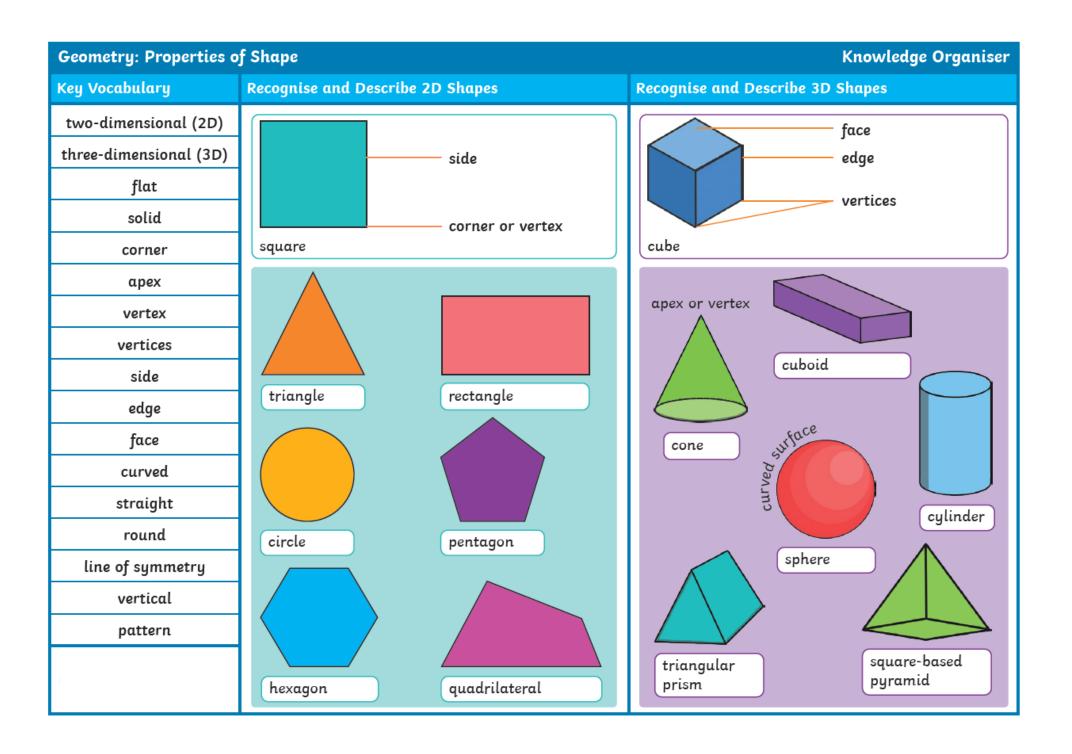




## **Multiplication and Division** Knowledge Organiser Recognise Equal Groups Make Equal Groups Key Vocabulary groups Make 4 equal groups. 5 equal groups with 3 in each group equal groups lots of Add Equal Groups arrays 2 equal groups with 4 in each group 2 + 2 + 2 + 2 = 8 apples repeated addition The Multiplication Symbol $4 \times 2 = 8$ multiplication 4 equal groups of 10 $2 \times 4 = 8$ 8 apples times tables $2 \times 5 = 10$ $5 \times 2 = 10$ 6 equal amounts of 5 pence 10 cookies



#### Position and Direction Knowledge Organiser Key Vocabulary Describing Straight-Line Movement forwards north backwards left right left right W Left and Right east north west The hand that makes south an L shape is the east south left hand. west **Describing Turns** quarter turn clockwise anticlockwise 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		Knowledge Organiser					
Key Vocabulary	Tally Charts			Block Diagram			
data	Tally marks look		11116	A block diagram represents data using blocks. One block represents one item.			
interpret	1 11 1		W	In this block			
key				diagram, the 9 y-axis, which			
tally chart	The fifth mark o	goes across diagon	ally, like a gate.	is vertical, shows the number 6			
pictogram	A tally chart is tally marks.	one way of coll	ecting data using	of items.			
block diagram	Eye Colour	Tally	Total	3			
table	brown blue	₩1 ₩1	6 8	2			
total	green	III	3		Snake at Horse Googe		
	grey		4	7	Snake at Horse Googe		
compare	hazel	Ж	5	In this block diagram, the <b>x-axi</b>	<b>s</b> , which is		
symbol				horizontal, shows the types of ite	ems.		
				The blocks can go vertically or h	orizontally.		

<b>Time</b> 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 10 <b>1</b> 2 -9 3 3-	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.	8 7 6 5	8 4.	8 5 4	8 7 6 5		
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	[-9 8 7	-9 3- -8 4.	-9 3- -8 7 6 5	-9 3- 8 4. 7 6 5	-9 3- -8 4. 7 6 5	-9 3- -8 4.	-9 -8 7 6 5	3- 8 4. 7 6 5		
half past			)		)		)	<u> </u>		
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 <sup>2</sup> )	(10 2 3-	(10 2)	(10 2 3-	(10 2 3-	(10 V 2 3-	(10 2 3-	(10 2 3-)		
five minutes	7 6 5	7 6 5 4	7 6 5	7 6 5	\\ \frac{1}{5} \\ \fr	7 6 5	\\ \begin{align*} \be	7 6 5		
duration	Past and To									
shorter	,s 11 V	° 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1	2 1	,s 11 1	2 1	<sub></sub> 11 1	2 1		
longer	∦10 ₃69 8	2 3 <del>-</del> 5 4	∛10 ;; 9 8	2 	∛10 ₹9 8	2 3 4	710 9 <b>4</b> 8	2 3 <del>-</del> 5 4		
	7 6	5	7 6 5		7 8 5		7 6 5			
	o'clock		quarter past		half past		quarter to			