Year 1 Yellow Knowledge Organiser: Numbers to 10 & Number Bonds

1 2 3 4 5 6 7 8 9 10

Can you count to 10? Can you count on from any number?
Can you count back?

Start with the greatest.

2,   7,   5
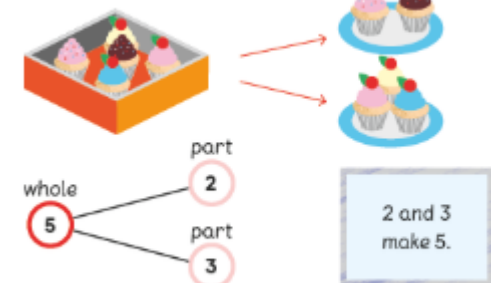
greatest ————→ smallest

Can you order and compare numbers?

Which group has more things?

Group A

Group B

Can you compare objects and use terms such as 'equal', 'as many as', 'more than', 'less than'?
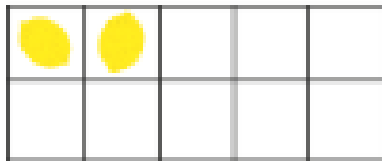
Can you count objects using a ten frame?

Can you count objects and write the correct number?

0

Do you know what the digit zero means?

Put 5 cupcakes on two plates.

whole
5

part
2

part
3

2 and 3 make 5.

This is a number bond.

Can you make number bonds in lots of different ways?

Year 1 Yellow Knowledge Organiser: Addition & Subtraction within 10

part
2
whole
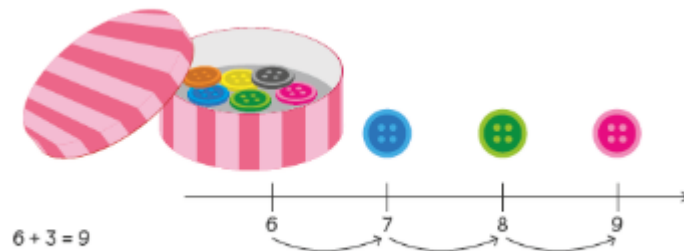5
part
3

2 + 3 = 5
part   part   whole
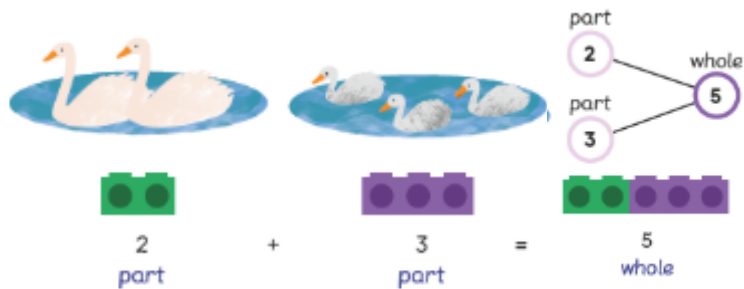
There are 5 swans altogether.

Can you add two numbers within 10 and use vocabulary such as plus, add, equals, parts and whole?

Can you solve addition problems in pictorial form?

$6 + 3 = ?$

$6 + 3 = 9$

6 7 8 9

There are 9 buttons in total.

Can you add numbers up to 10 by counting on?

7
1

$\square + 1 = 7$

Do you understand how to complete number sentences using inverse?
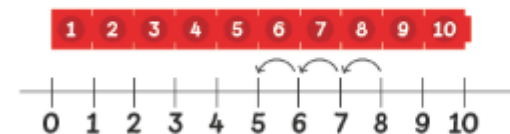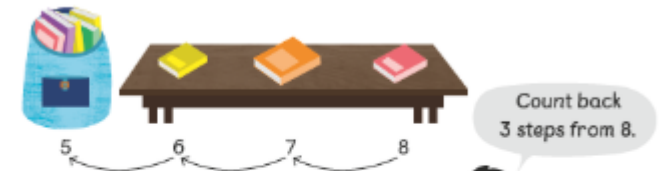
$7 - 2 = 5$
5 ladybirds are left.

Can you subtract by crossing out when you are taking away?

4   −   3   =   1
whole   part   part

4
3
1

1 boy does not wear glasses.

Can you subtract using number bonds?

$8 - 3 = ?$

5 6 7 8

Count back 3 steps from 8.
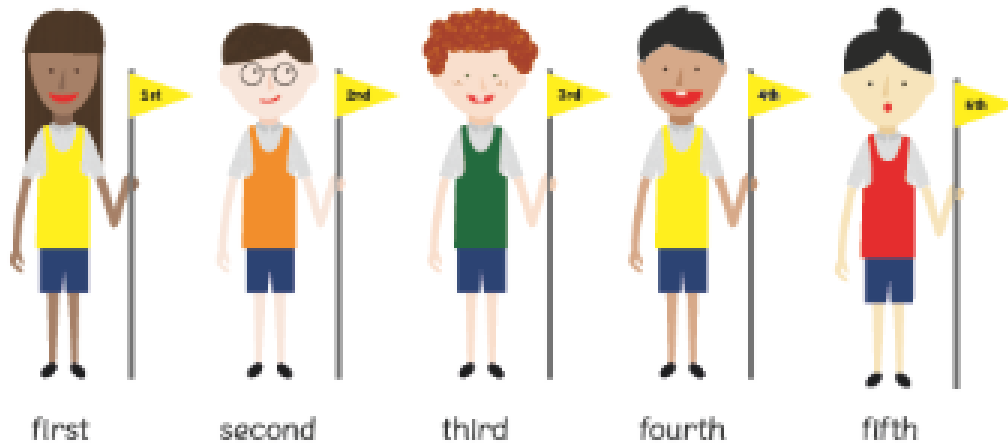
1 2 3 4 5 6 7 8 9 10

0 1 2 3 4 5 6 7 8 9 10

$8 - 3 = 5$
There are 5 books in the bag.

Can you count back using a number line to subtract?

Year 1 Yellow Knowledge Organiser: Positions

first   second   third   fourth   fifth

Can you use positional language (ordinal numbers) for up to 10 positions?

Emma

Lulu is in the first row.
She is second from the left.
She is also fifth from the right.

Emma is in the second row.
She is fifth from the left.
She is also first from the right.

Lulu   Ravi

Can you name positions using left and right?

2nd second   4th fourth   6th sixth   8th eighth   10th tenth

1st first   3rd third   5th fifth   7th seventh   9th ninth

Hannah is after Ravi.
Sam is before Elliott.
Lulu is between Amira and Sam.
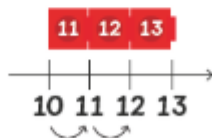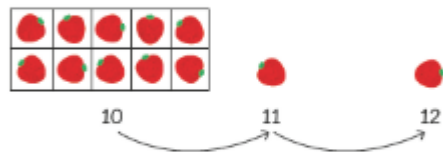
Year 1 Yellow Knowledge Organiser: Numbers to 20

Can you count to 20 confidently forwards and backwards and arrange numbers in ascending and descending order?
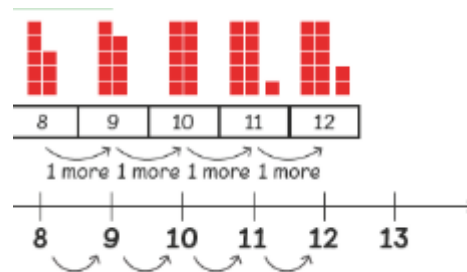
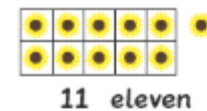How many strawberries are there?

Make 10 and count on.

10   11   12

11 eleven

12 twelve

13 thirteen

14 fourteen

15 fifteen

16 sixteen

17 seventeen

18 eighteen

19 nineteen

20 twenty

Can you write numbers to 20 in words and numerals?

8   9   10   11   12

1 more 1 more 1 more 1 more

8   9   10   11   12   13

Can you recognise number patterns focusing on one more and one less?

Bus Stop A
13 children

Bus Stop B
11 children

Bus Stop A has more children than Bus Stop B.

Can you compare numbers using terms such as 'greater than' or 'less than'?

11   12   13

10 11 12 13

10 and 2 make 12.   Can you count up to 20 by making 10 first?

Year 1 Yellow Knowledge Organiser: Addition & Subtraction Within 20

Can you add numbers up to 20 by counting on?

| 11 | 12 | 13 | 14 |

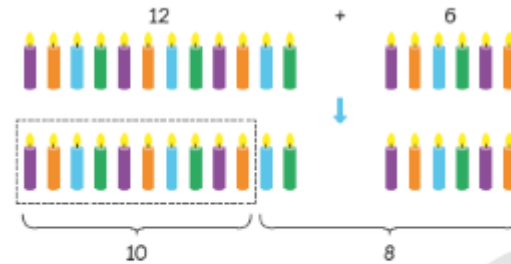$11 + 3 = 14$
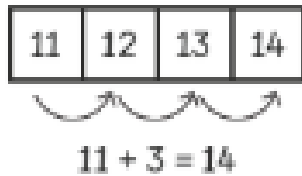
Can you add numbers by first making 10 and adding the remainder?

$6 + 8 = ?$

6   +   8

make 10

4   10

$6 + 8 = 14$
There are 14 sandwiches.

8 + 4 = 10 + 2
= 12
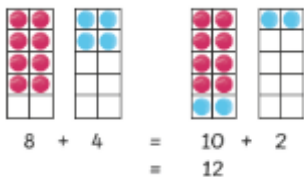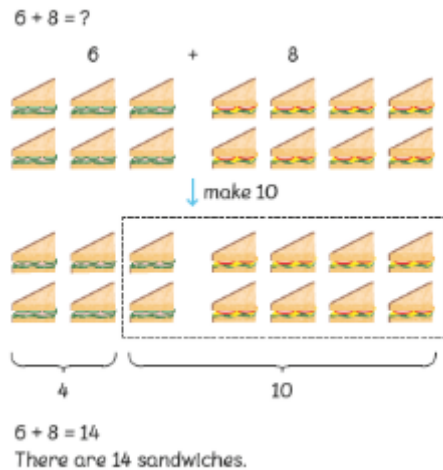
Can I use number facts to add and subtract?

Add Ones

12   +   6

10   8
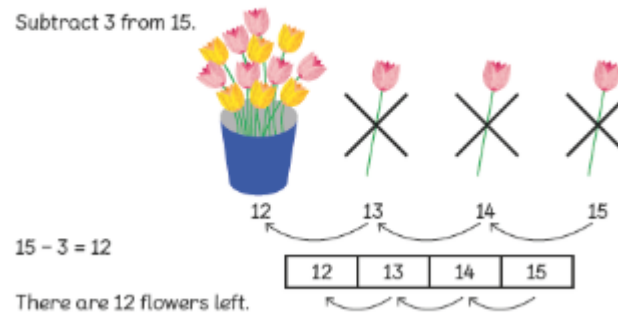
$12 + 6 = 18$

There are 18 candles altogether.

12 + 6
10   2

$2 + 6 = 8$
$10 + 8 = 18$

Can you add by separating ones and tens?

Subtract 3 from 15.

12   13   14   15

| 12 | 13 | 14 | 15 |

$15 - 3 = 12$

There are 12 flowers left.

Can you subtract by counting back from the largest number?
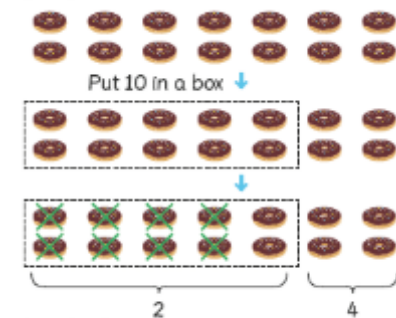
$15 - 2 = ?$

10   3
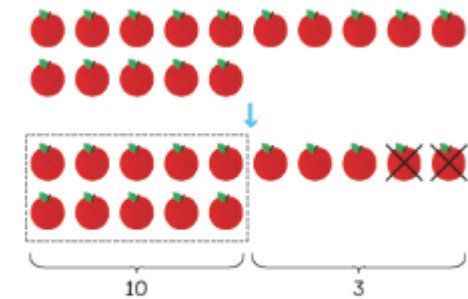
$15 - 2 = 13$
There are 13 apples left.

Can you subtract by subtracting from only the ones column?

$14 - 8 = ?$

Put 10 in a box

2   4

$14 - 8 = 6$
Sam has 6 doughnuts left.

Can you subtract a certain amount of ones from 10 if there aren't enough ones?

Year 1 Yellow Knowledge Organiser: Shapes & Patterns

These are spheres.

These are cubes.

These are cuboids.

These are pyramids.

These are not pyramids.

Can you recognise the 3-D solid shapes: Spheres, cubes, cuboids and pyramids?

Can you recognise squares, circles, triangles and rectangles in the everyday environment?

The shapes are grouped by colour.

The shapes are grouped by shape.

The shapes are grouped by shape.

Can you group shapes using different criteria?

1

There is a change in colour.

yellow, red , yellow, red , ...

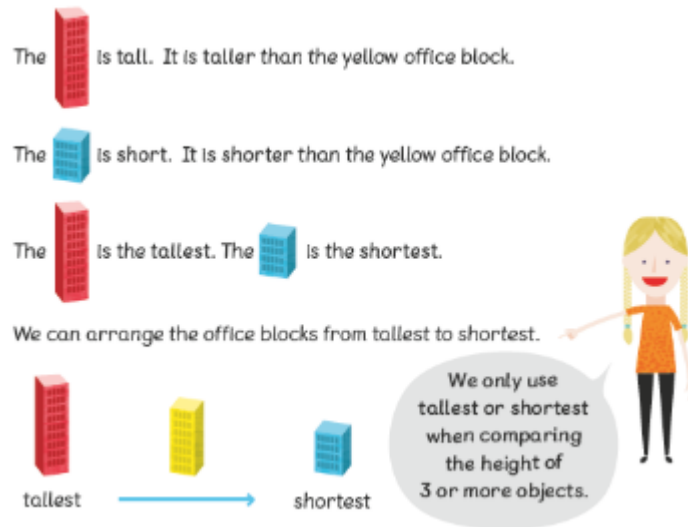These are patterns. What comes next in each pattern?

2

There is a change in size.

big, small , big, small , ...

Can you make patterns using common 2-D shapes?

Year 1 Yellow Knowledge Organiser: Length & Height

The [ ] is tall. It is taller than the yellow office block.

The [ ] is short. It is shorter than the yellow office block.

The [ ] is the tallest. The [ ] is the shortest.

We can arrange the office blocks from tallest to shortest.

tallest → shortest

We only use tallest or shortest when comparing the height of 3 or more objects.

Can you compare height and length using terms such as 'tall, taller, tallest' and 'short, shorter, shortest'?

This is 1 centimetre long.

Do you understand how to measure height and length using a ruler?

Can you measure objects using items as non-standard units?
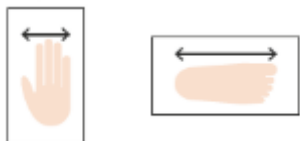
Can you measure height and length using parts of the body?

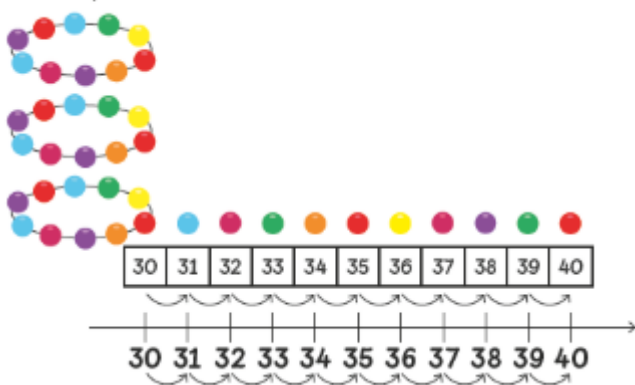# Year 1 Yellow Knowledge Organiser: Numbers to 40

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

Can you count to 40, forwards and backwards?

We can use ▦ to show 32 in tens and ones.

30
2

3 2

32 = 3 tens and 2 ones

tens	ones
3	2

30 is the same as 3 tens.
2 is the same as 2 ones.

Can I represent numbers using different methods?

Arrange the numbers in order.

22,	29,	37

smallest ⟶ greatest

37,	29,	22

greatest ⟶ smallest

Can you compare and order numbers to 40?

How many beads are there?

| 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

30 31 32 33 34 35 36 37 38 39 40

Can you make groups of 10 to help counting? Can you represent numbers on a number line?

Can you organise numbers into tens to help you count?

22

28 is more than 22.
28 is 6 more than 22.

28

22   6

Can you compare numbers and work out how much more/less?

38	36	34	32	?

2 less   2 less   2 less   2 less
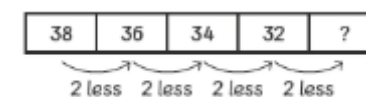
Can you use number patterns?

Year 1 Yellow Knowledge Organiser: Addition & Subtraction Word Problems

There are
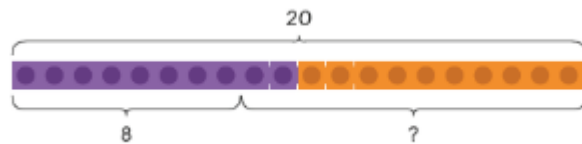8 flowers in the vase.
I am holding
2 flowers.

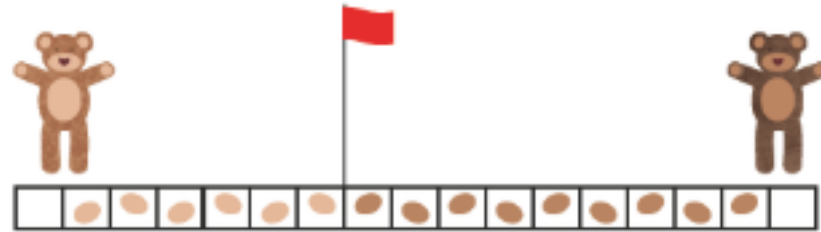Can you decide whether addition or subtraction is the most appropriate operation?

How many more cubes do they need to make a stack of 10 cubes?

Can you use and apply concepts of how many more/ less?
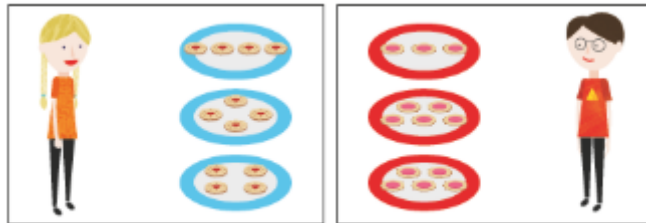
20

8   ?

Can you use bar models and other pictorial representations to represent word problems?

How far are 🧸 and 🧸 apart?
What is the distance between them?

Can you apply addition and subtraction to multi-step word problems?

Year 1 Yellow Knowledge Organiser: Multiplication & Division

Who made equal groups?
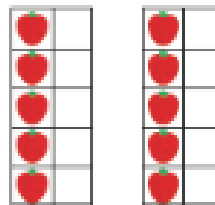
Can you identify equal groupings?

Double 2 = 4

Double 5 = 10

Do you understand what doubling means?

Each child takes one cookie.

Each child takes one more cookie.

No cookies are left.

Each child gets 2 cookies.

Do you know how to divide even numbers equally into groups?

Each pack has 2 .

There are 3 packs.

3 packs of 2 = 6
3 groups of 2 = 6
3 twos   = 6

2, 4, 6

There are 6 .

Can you understand how to count groups of the same quantity?

3 cookies in 1 row

6 cookies in 2 rows

12 cookies in 4 rows

Can you organise objects into equal rows for counting?
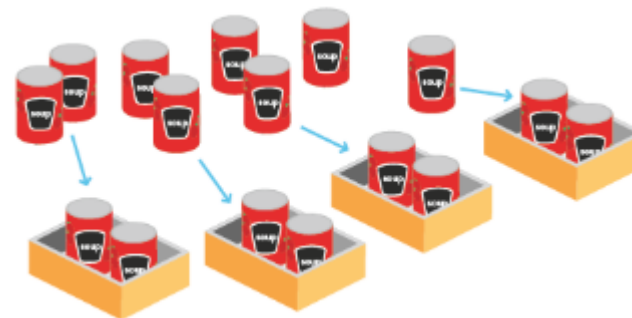
Do you know how to divide even numbers into equal groups using concrete materials?

Year 1 Yellow Knowledge Organiser: Fractions
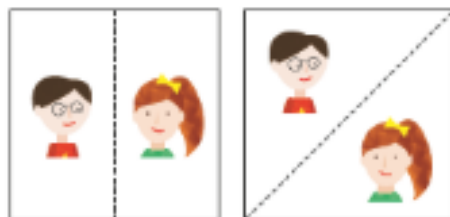
Are there other ways to do this?

gets — This is half.

gets — This is also half.

2 halves make the whole piece of art paper.

Can you split an object into two equal parts and identify which objects have been split equally into two parts?

Can you split an object into four equal parts and identify which objects have been split equally into four parts?
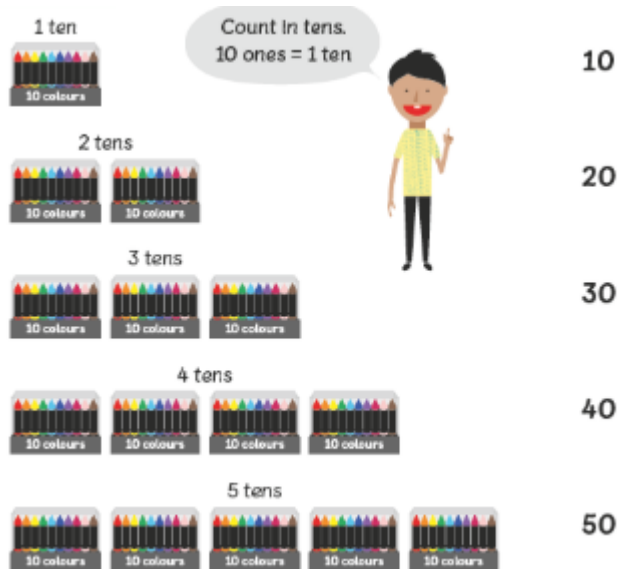
Half of the box of cupcakes
= 4 cupcakes

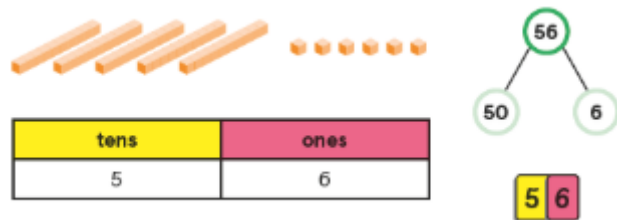A quarter of the box of cupcakes
= 2 cupcakes

Can I share and group objects into halves and quarters and find half or a quarter of a number?

Year 1 Yellow Knowledge Organiser: Numbers to 100

1 ten

Count in tens.
10 ones = 1 ten

10

2 tens

20

3 tens

30

4 tens

40

5 tens

50

Can you count in 10s up to 100?

Can you count in 10s and follow by counting in ones?

We can arrange the numbers in order.

75,   69,   63

greatest ⟶ smallest

Can you place numbers in order from smallest to greatest and vice versa?

What is 1 more than 42?

| 4 | 2 |

1 more ⟶

| 4 | 3 |
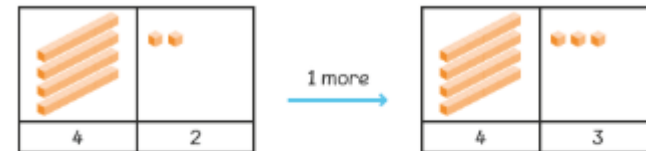
1 more than 42 is 43.

We can make a number pattern. Each number is 1 more than the number before it.

1 more 1 more 1 more 1 more 1 more 1 more 1 more 1 more 1 more

| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |

41 42 43 44 45 46 47 48 49 50
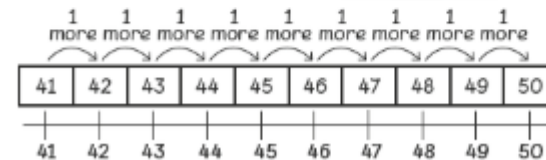
Can you see patterns when increasing or decreasing by 1, 2 or 5?

56

50   6

tens	ones
5	6

5 6

Can you represent a number using multiple methods?

Year 1 Yellow Knowledge Organiser: Time

This is the minute hand.

This is the hour hand.

The minute hand is pointing to 12.
The hour hand is pointing to 8.
The time is 8 o'clock.

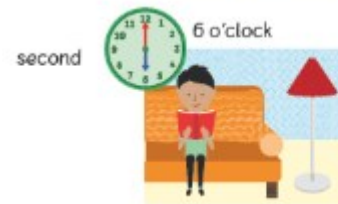Can you tell if it is morning, afternoon, evening or night from the clock?

Can you recognise the minute and hour hands? Can you tell the time to the nearest hour?

first

5 o'clock

At 5 o'clock in the evening, he played with his toys.

second

6 o'clock

At 6 o'clock in the evening, he read some stories.

Can you sequence events in order of time and use terms like 'next', 'before', and 'after'?

October **2014**

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Do you know the days of the week and months of the year and can put them in the correct order?

half past 12	half past 1	half past 2	half past 3

Can you tell the time to the half hour using the term 'half past'?

maths lesson

music lesson

How long is a second?
Is singing a song likely to take a minute or an hour?

Can you estimate amounts of time using seconds, minutes and hours and use the terms 'quicker', 'slower', 'earlier' and 'later' when comparing time?

Year 1 Yellow Knowledge Organiser: Money

1 pence

2 pence

5 pence

10 pence

20 pence
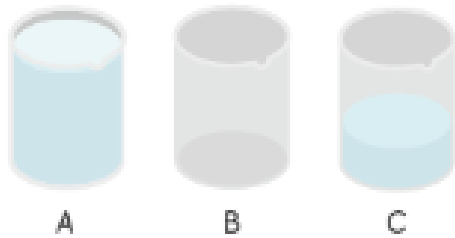
50 pence

£1 1 pound

£2 2 pounds

Do you recognise coins and know their value?

What notes are these?

Can you recognise notes and determine the value?

Year 1 Yellow Knowledge Organiser: Volume, Capacity & Mass

Can you compare volume and capacity using the terms 'more than' and 'less than', 'full' and 'empty?

Can you find the volume and capacity of a container using non-standard units?

The container can be filled up with 4 cups of water.
The capacity of one cup is a quarter of the capacity of the container.

Can you describe volume using the terms 'half' and 'quarter'?

heavy	light
monitor pin board piano chair table	cube rubber keyboard sweet marble

The monitor, pin board, chair, piano and table are heavy objects.

The cube, rubber, keyboard, sweet and marble are light objects.

Can you compare the mass of objects using the terms 'heavy' and 'light', 'heavier than', 'lighter than' and 'as heavy as'?
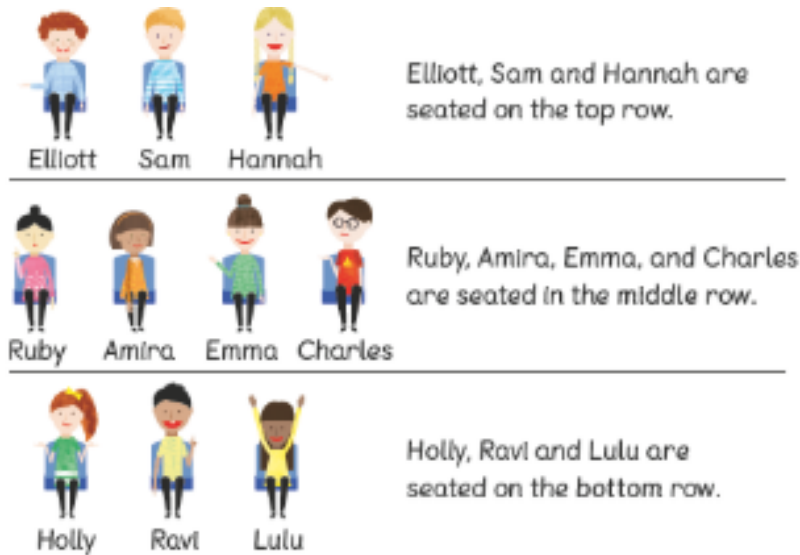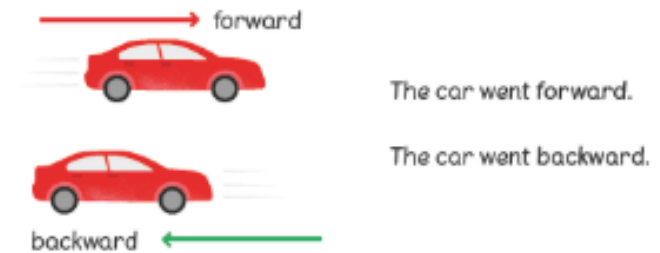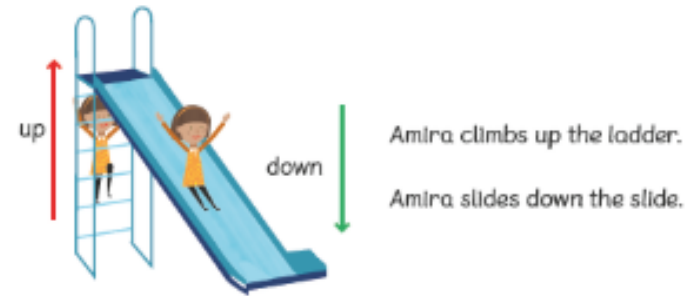
The toy car is as heavy as 5 ■.
The mass of the toy car is about 5 units.

Can you find the mass of an object using non-standard units?

Year 1 Yellow Knowledge Organiser: Space

Elliott, Sam and Hannah are seated on the top row.

Elliott   Sam   Hannah

Ruby, Amira, Emma, and Charles are seated in the middle row.

Ruby   Amira   Emma   Charles

Holly, Ravi and Lulu are seated on the bottom row.

Holly   Ravi   Lulu

Can you describe the position of objects in relation to one another using varied vocabulary?

up

down

Amira climbs up the ladder.

Amira slides down the slide.

forward

The car went forward.

The car went backward.

backward

Can you describe movements of objects using varied language?

Amira   Elliott   Ruby   Lulu

Can you make turns using mathematical language like: 'a whole turn', 'a half turn', 'a quarter turn' and 'a three-quarter turn' ?