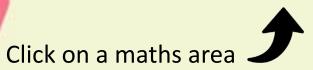
Year 1 Maths Knowledge Organisers Spring

Week 1	Week 2	Week 3	Week 4	Week 5	Ŧ	Week 1	Week 2	Week 3	Week 4	Week 5
4 Operation revision Place value Addition and subtraction		<u>Fractions</u>		Half term Measurement		Measurement	<u>Shape</u>		<u>Money</u>	







Vocabulary Counting in 2s, 5s and 10s @ ➤ Ones **2s** https://youtu.be/HtxNe5yAF E ➤ Tens ➤ Greater than ➤ Less than tps://youtu.be/5FaBDqOmi **≻** Equal 10s ➤ Counting > Fewer tps://voutu.be/W8CEOIAOG ➤ More than

Counting forwards and backwards across 100

- 1. Practice chanting the numbers forwards and backwards
- 2. Spot the link with counting up to 10 and backwards.
- 3. Children go to the next line counting forwards (the last line counting back)

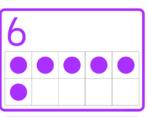
E.g. counting from 27 to 32, move to 31 after 30.

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
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

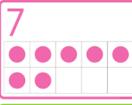


Always place the objects in a line until you reach the number 5! Children identify one more and less.



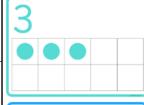




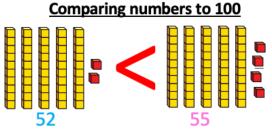












1. Use egg boxes/ten frames to represent

the numbers (organised accordingly).

(Think of the hungry crocodile that

wants to eats the larger value – see

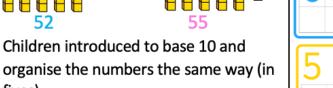
Place Value

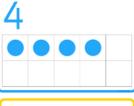
Y1/2

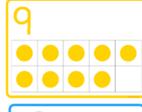
2. Become familiar with > < and =

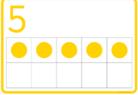
above).

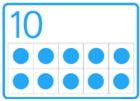
fives).











Y2 – they can recognise the digit in each number. E.g. 52 has 5 tens and 2 ones. They will prove this with resources.

Y2 – they would also order more than 2 numbers.

Children should recognise the value of each number in this formation instantly. They should recognise 5 and see 8 as 3 more and compare these numbers.



Vocabulary

- **≻** Add
- ➤ Subtract
- ➤ Take away
- ➤ Difference between
- ➤ Partition (split a number)
- ➤ Number bonds
- ➤ Bar model
- ➤ Ten frame/egg box

Number bond songs to support instant recall

9s –

https://www.loom.com/sh are/a17d1126171c426bae debb3f7bb9c24b

8s -

https://www.loom.com/sh are/0260942d28ef4181a0 84422eea337d0b

7s –

https://www.loom.com/sh are/8559d767dc5542ec91 1784d5e8289853

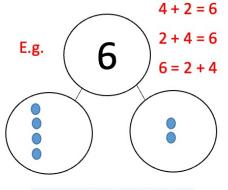
6s -

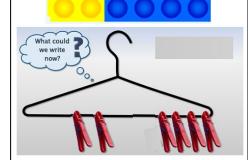
https://www.loom.com/sh are/d18b2b05f37f4b72ad 8e70a357788426

Number bonds – knowing what they are.

Number bonds are simply different ways to make a number.

 Use objects and the partwhole to partition (split) a number in different ways.





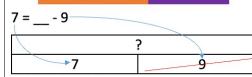
Application of number bonds to 10 for bonds to 20

If I know number bonds for 7, I can use them for 17.

$$1+6 \longrightarrow 1+16$$
 $2+5 \longrightarrow 2+15$
 $3+4 \longrightarrow 3+14$
 $4+3 \longrightarrow 4+13$

Add and subtract using bar models 3 Balls 2 Balls

Use pictures to add two numbers together as a group or in a bar.

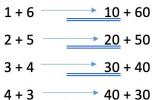


Add back to 7 (use resources to help)

Addition & Subtraction Y1/2

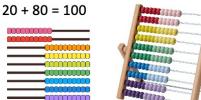
Application of number bonds to 10 for 100

If I know number bonds for 7, I can use them for 70.



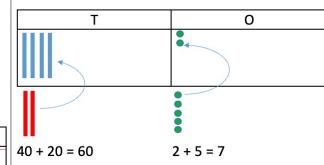
Number bonds for 100

Use an abacus to demonstrate link.

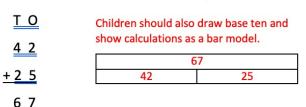


Y2 Adding tens and ones (progressing onto mentally)

42 + 25

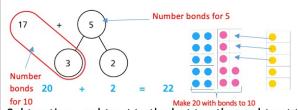


Draw links with column addition/subtraction

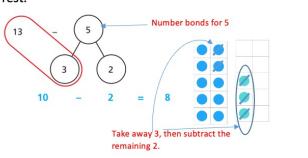


Apply number bonds in addition & subtraction

Addition – get to the next 10 using number bonds to 10 (7+3) and then add the rest. Imagine an egg box to help



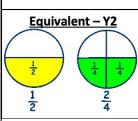
Subtraction – subtract to the last ten than subtract the rest.





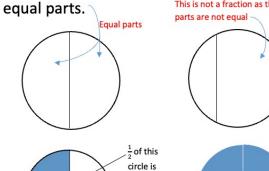
Vocabulary

- > Fractions
- ➤ Half
- ➤ Quarter
- ➤ Bar model
- ➤ Shape
- ➤ Divide
- ➤ Equal



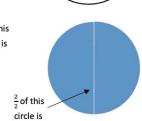
What is a fraction?

A fraction is when something is split into This is not a fraction as the



blue

blue



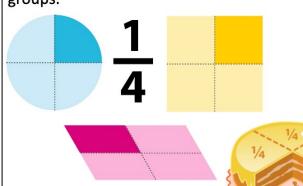
Halves

A half is when something is split into 2 equal groups.



Quarters

A quarter is when something is split into 4 equal groups.



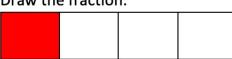
Fractions Y1/2



Fractions of an amount

$$\frac{1}{4}$$
 of 8 =?

1. Draw the fraction.



2. Share 8 items into all of the parts.



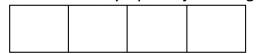
3. Count the number in the fraction that is coloured.

$$\frac{1}{4}$$
 of 8 = 2

Drawing fractions (bar model)

stars are gold

- 1. Look at the denominator to see how many parts there are.
- 2. Draw that many squares joined together (4)



3. Colour in 1 of the parts as the numerator is



Fractions of an amount #2

 $\frac{3}{4}$ of 8 =?







Vocabulary

- ➤ Weight
- ➤ Volume
- ➤ Scale
- ➤ Measure
- ➤ Compare
- > Heavier
- **≻** Lighter
- ➤ Equal
- ➤ More than
- > Less than
- ➤ Half
- > Empty
- > Full

Estimating volume









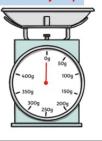






How can you measure weight?





Children to explore using different scales. Children in Y2 can explain which resource is better for heavier objects.



The most appropriate scale

Grams = g _(lighter objects)







Children learn which resource is better to weigh different things. Y2 know kg is better for heavier things.

Children begin to record the measurements that they read on the scale, Y2 choosing scale.

Measurement #1

Y1/2

Equal weight means the same



Superlatives in measurement (-est)

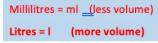
When comparing more than 2 things, superlatives are used. E.g.



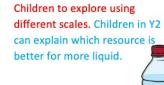




How can you measure weight?









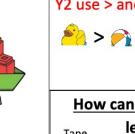
Comparing weight



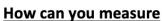
The is heavier than the 🤼

Or the is lighter than the <u>Pa</u>.

Y2 use > and < to compare.









lengths (e.g. a 30cm

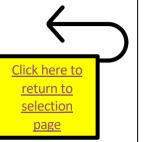
ruler is not good to measure the length of the playground).



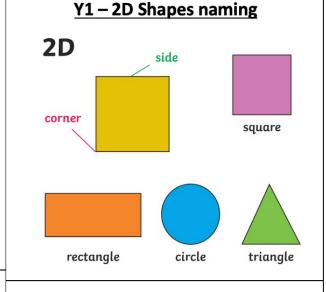


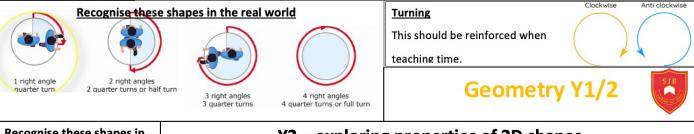


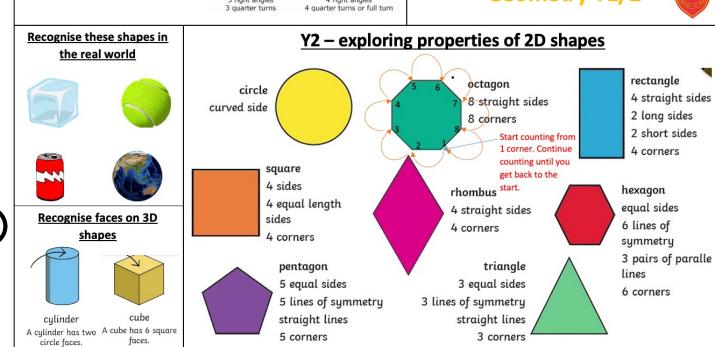


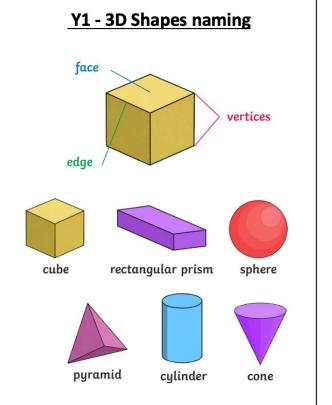


Vocabulary Y2 – exploring properties of 2D shapes ➤ Circle Cube Sphere Cylinder ➤ Square 6 faces 1 face 3 faces 8 vertices ➤ Rectangle 0 vertices 0 vertices 12 edges 0 edges 2 edges ➤ Triangle **≻** Cube **≻** Cuboid Square-based Rectangular Pyramid Cone Prism **>** Sphere 5 faces 2 faces 6 faces vertices O vertices **≻** Cone 8 vertices 8 edges 1 edge 12 edges > Cylinder Rectangular > Pyramid











Vocabulary > Money > Pence/penny ➤ Pound (£) **≻** Value **≻** Time ➤ Seconds **➤** Minutes ➤ Hours ▶ Day ➤ Week **>** Month > Year > January > February ➤ March > April ➤ May ➤ June July August ➤ September ➤ October > November ➤ December Writing the pound sign £

Click here to return to selection page Top tip! Think of a walking stick for the start of the symbol.





five





ten



Measurement #2







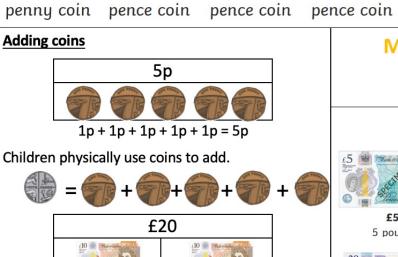
The short

quarter to

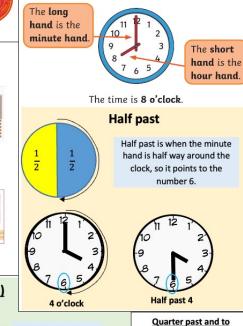
£2

Telling the time - o'clock





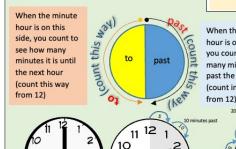






This also occurs through daily discussions.





10 minutes past 4 o'clock

