

YI mathematics workshop



Y1 mathematics workshop

Aims of today

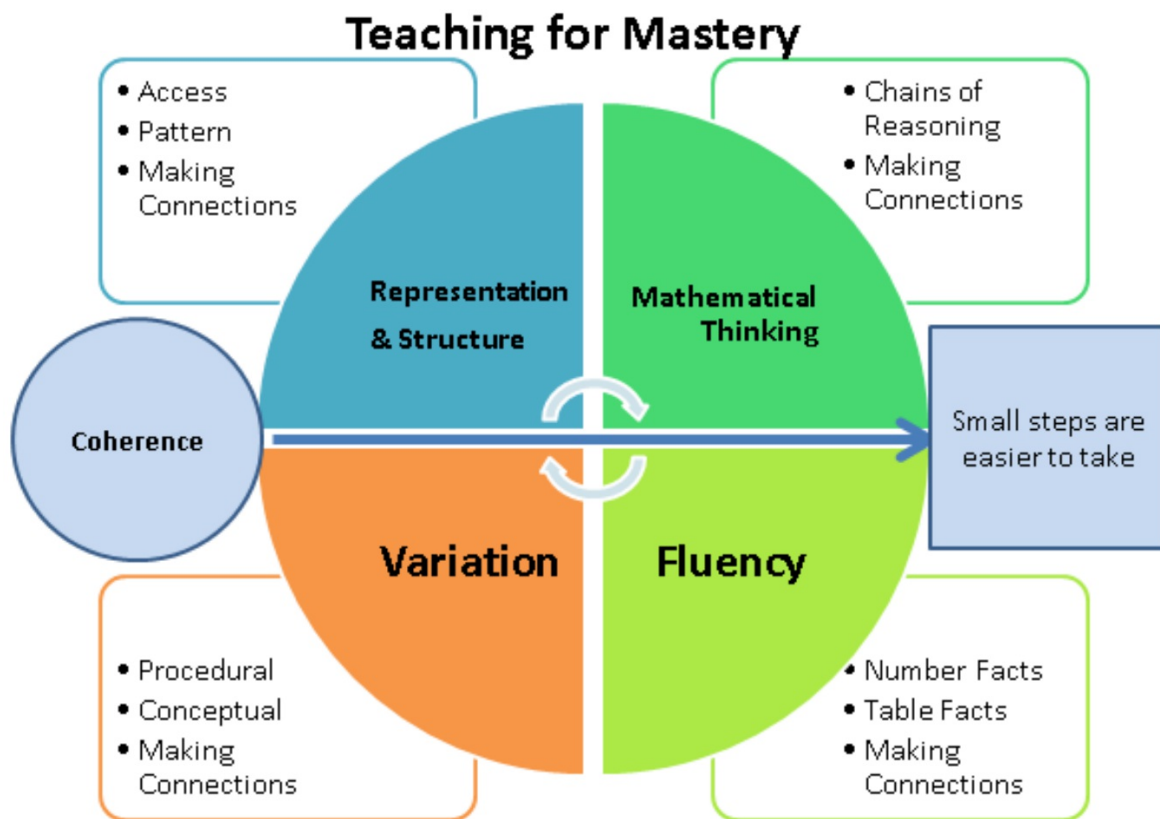
- To learn about how we teach maths and the resources we use
- To understand the key objectives for Y1
- To focus on developing fluency of addition and subtraction facts
- How to help at home, including interactive games



The maths mastery approach

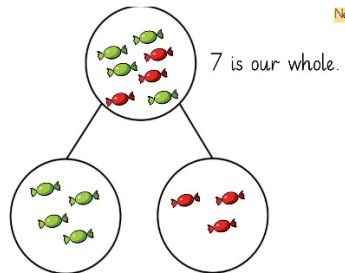


The five big ideas



Representation and structure

Concrete – Pictorial – Abstract



7 is our whole.

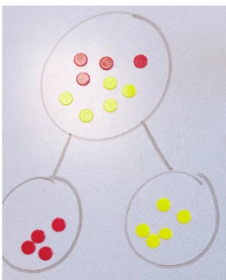
The parts are 4 and 3.

The whole is 7.

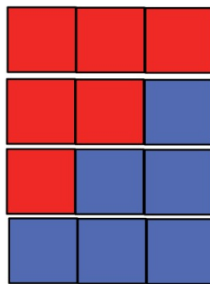
The parts are 4 and 3.

$$7 = 4 + 3$$

Making number bonds



Seeing pictures of number bonds.



Writing or saying number bonds.

$$\begin{aligned} 4 + 0 &= 4 \\ 3 + 1 &= 4 \\ 2 + 2 &= 4 \\ 1 + 3 &= 4 \\ 0 + 4 &= 4 \end{aligned}$$



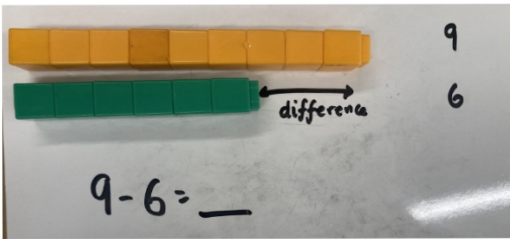
Contexts and representations are carefully chosen to develop reasoning skills and to help pupils link concrete ideas to abstract mathematical concepts.



diennes



bead string

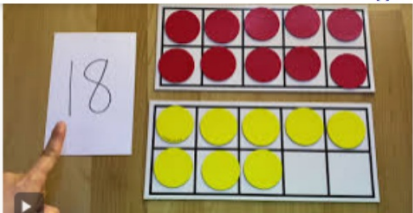


unifix

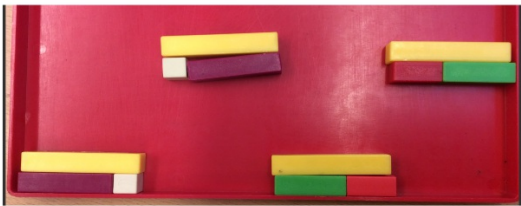


numicon

counters tens frame

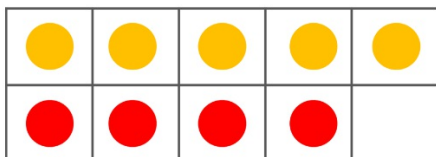


Cuisenaire rods

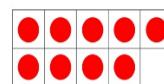




Show the same number on your rekenrek using only one push



Let's make 10!



_____ needs _____ to make 10.

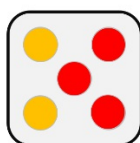
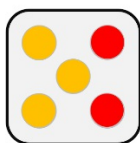
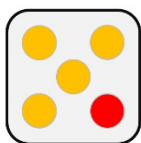
Version 2 (2022)

Mastering Number 2021/22 [ncetm.org.uk](https://www.ncetm.org.uk)

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Look for the parts when 5 is the whole

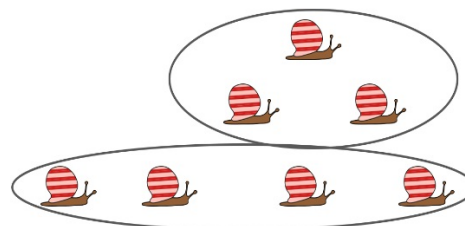


_____ is the whole;
_____ is a part and _____ is a part.

Version 2 (2022)

Mastering Number 2021/22 [ncetm.org.uk](https://www.ncetm.org.uk)

How many ways can you see the parts in 7?



_____ is the whole;
_____ is a part and _____ is a part.

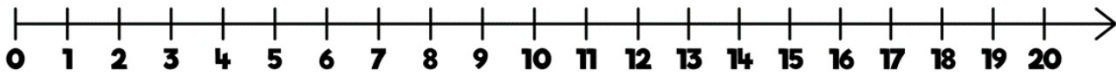
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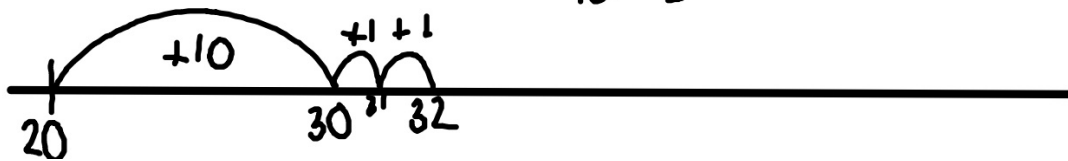
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11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

number square

number line



blank number line $20 + 10 = 30$

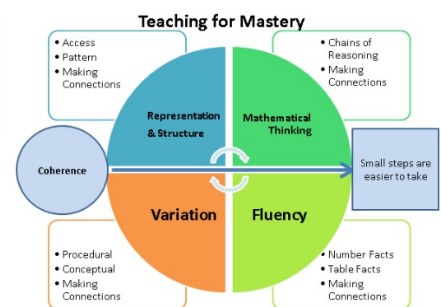


Coherence

Small steps are easier to take

Focussing on one key point in each lesson allows for deep and sustainable learning

The whole class are taught together



What is variation?

Conceptual variation

The opportunity to work on different representations of the same mathematical idea.

How many ways?

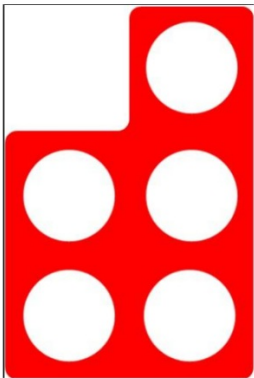




YR

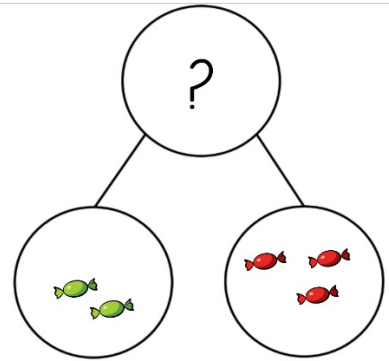
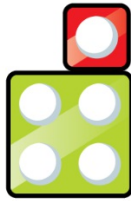
five

5



YI

five



5 + 0	
4 + 1	
3 + 2	
2 + 3	
1 + 4	
0 + 5	

First, there were ____ apples.

Then, I put ____ more in the bag.

Now, there are ____ apples.



What is the same?

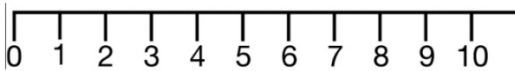
What is different?



$$5 - 2 = \underline{\quad}$$



$$15 - 2 = \underline{\quad}$$



$$4 - 2 = \square$$

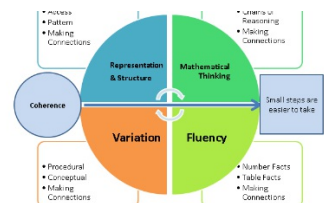
$$14 - 2 = \square$$

$$24 - 2 = \square$$

$$34 - 2 = \square$$



Fluency



Quick and efficient recall of facts and procedures is important in order for learners to keep track of sub problems, think strategically and solve problems.

Fluency demands more of learners than just memorisation of facts. It encompasses a mixture of efficiency, accuracy and flexibility

We want children to recognise relationships, make connections and make appropriate choices from a whole toolkit of methods, strategies and approaches.



0+0	1+0	2+0	3+0	4+0	5+0	6+0	7+0	8+0	9+0	10+0
0+1	1+1	2+1	3+1	4+1	5+1	6+1	7+1	8+1	9+1	10+1
0+2	1+2	2+2	3+2	4+2	5+2	6+2	7+2	8+2	9+2	10+2
0+3	1+3	2+3	3+3	4+3	5+3	6+3	7+3	8+3	9+3	10+3
0+4	1+4	2+4	3+4	4+4	5+4	6+4	7+4	8+4	9+4	10+4
0+5	1+5	2+5	3+5	4+5	5+5	6+5	7+5	8+5	9+5	10+5
0+6	1+6	2+6	3+6	4+6	5+6	6+6	7+6	8+6	9+6	10+6
0+7	1+7	2+7	3+7	4+7	5+7	6+7	7+7	8+7	9+7	10+7
0+8	1+8	2+8	3+8	4+8	5+8	6+8	7+8	8+8	9+8	10+8
0+9	1+9	2+9	3+9	4+9	5+9	6+9	7+9	8+9	9+9	10+9
0+10	1+10	2+10	3+10	4+10	5+10	6+10	7+10	8+10	9+10	10+10



0-0	1-0	2-0	3-0	4-0	5-0	6-0	7-0	8-0	9-0	10-0
1-1	2-1	3-1	4-1	5-1	6-1	7-1	8-1	9-1	10-1	11-1
2-2	3-2	4-2	5-2	6-2	7-2	8-2	9-2	10-2	11-*2	12-2
3-3	4-3	5-3	6-3	7-3	8-3	9-3	10-3	11-3	12-3	13-3
4-4	5-4	6-4	7-4	8-4	9-4	10-4	11-4	12-4	13-4	14-4
5-5	6-5	7-5	8-5	9-5	10-5	11-5	12-5	13-5	14-5	15-5
6-6	7-6	8-6	9-6	10-6	11-6	12-6	13-6	14-6	15-6	16-6
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8-8	9-8	10-8	11-8	12-8	13-8	14-8	15-8	16-8	17-8	18-8
9-9	10-9	11-9	12-9	13-9	14-9	15-9	16-9	17-9	18-9	19-9
10-10	11-10	12-10	13-10	14-10	15-10	16-10	17-10	18-10	19-10	20-10



Year 1

0+0	1+0	2+0	3+0	4+0	5+0	6+0	7+0	8+0	9+0	10+0
0+1	1+1	2+1	3+1	4+1	5+1	6+1	7+1	8+1	9+1	10+1
0+2	1+2	2+2	3+2	4+2	5+2	6+2	7+2	8+2	9+2	10+2
0+3	1+3	2+3	3+3	4+3	5+3	6+3	7+3	8+3	9+3	10+3
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0+6	1+6	2+6	3+6	4+6	5+6	6+6	7+6	8+6	9+6	10+6
0+7	1+7	2+7	3+7	4+7	5+7	6+7	7+7	8+7	9+7	10+7
0+8	1+8	2+8	3+8	4+8	5+8	6+8	7+8	8+8	9+8	10+8
0+9	1+9	2+9	3+9	4+9	5+9	6+9	7+9	8+9	9+9	10+9
0+10	1+10	2+10	3+10	4+10	5+10	6+10	7+10	8+10	9+10	10+10

0-0	1-0	2-0	3-0	4-0	5-0	6-0	7-0	8-0	9-0	10-0
1-1	2-1	3-1	4-1	5-1	6-1	7-1	8-1	9-1	10-1	11-1
2-2	3-2	4-2	5-2	6-2	7-2	8-2	9-2	10-2	11-2	12-2
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8-8	9-8	10-8	11-8	12-8	13-8	14-8	15-8	16-8	17-8	18-8
9-9	10-9	11-9	12-9	13-9	14-9	15-9	16-9	17-9	18-9	19-9
10-10	11-10	12-10	13-10	14-10	15-10	16-10	17-10	18-10	19-10	20-10

If children are not fluent in basic addition and subtraction facts, then when solving complex problems the working memory is taken up by calculating basic facts and children have less working memory to focus on solving the actual problem.



Mathematical thinking

Mathematical thinking is central to deep and sustainable learning of mathematics.

Ideas need to be thought about, reasoned with and discussed.

Mathematical thinking involves looking for patterns to understand structure, looking for relationships/connecting ideas and reasoning logically, explaining and proving.

$$10 - 1 =$$



What is the same?

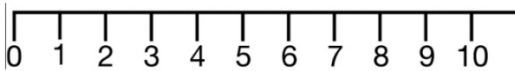
What is different?



$$5 - 2 = \underline{\quad}$$



$$15 - 2 = \underline{\quad}$$



$$4 - 2 = \square$$

$$14 - 2 = \square$$

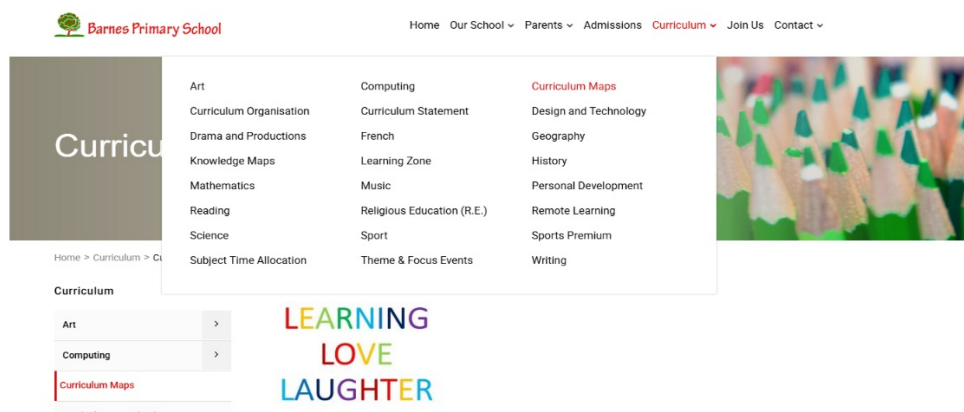
$$24 - 2 = \square$$

$$34 - 2 = \square$$



The YI key objectives





Autumn: Addition and subtraction up to 10
 Spring: Property of shapes, place value, addition and subtraction up to 20
 Summer: Measurement, place value to 100 and multiplication and division

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

Number – number and place value

Statutory requirements

Pupils should be taught to:

- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
- count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
- given a number, identify one more and one less
- identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least
- read and write numbers from 1 to 20 in numerals and words.

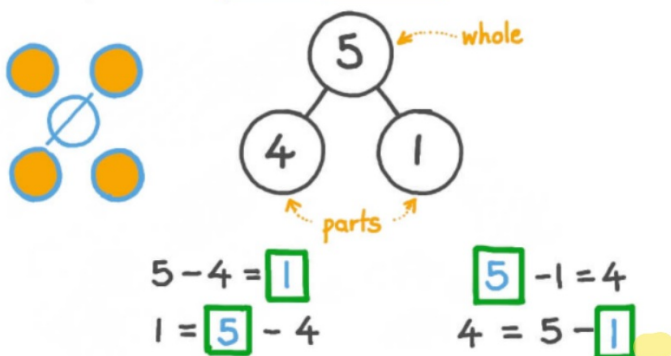
Number – addition and subtraction

Statutory requirements

Pupils should be taught to:

- read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs
- represent and use number bonds and related subtraction facts within 20
- add and subtract one-digit and two-digit numbers to 20, including zero
- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$.

Find the missing numbers in the subtraction sentences matching the given part-whole model.





+

more than 



altogether 

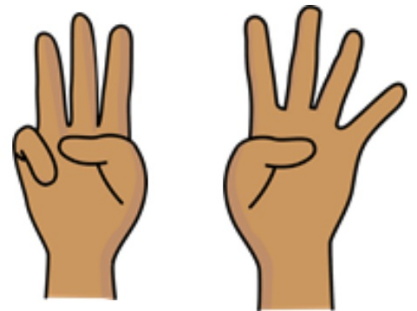


How do you add?

after teaching
with manipulatives

$$3 + 4 =$$

I use my fingers.
I make 3 and 4.
Then, I count them
altogether.



How do you add?

$$3 + 4 =$$

I put 4 in my head because
it's bigger.
Then count on 3 more.



How do you add?

$$3 + 4 =$$

I know that 7 is made of
3 and 4, so $3 + 4 = 7$.

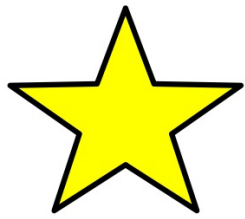


How do you add?

$$3 + 4 =$$

I know that $4 + 4 = 8$
so $3 + 4$ must be one less.
It's 7!

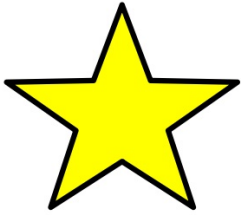
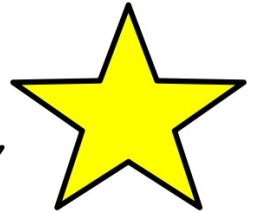




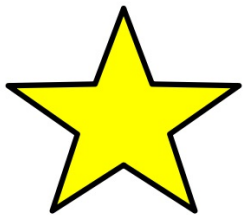
subtract

—

less than

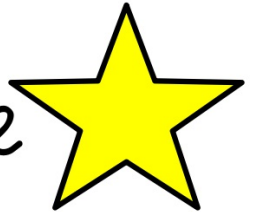


take away



minus

difference

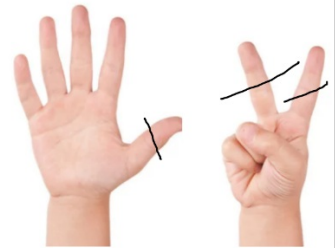


After concrete
work with items.

Fingers

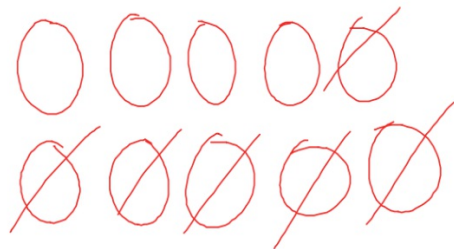
$$7 - 3 =$$

Make the **whole** with your fingers.
Take the **part** you know away.
The answer is what you're left with.

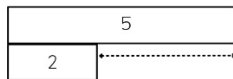


Draw it

$$10 - 6 = \underline{4}$$



Counting back



$$5 - 2 =$$

4 3



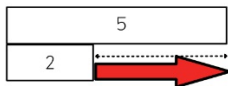
Put the **whole** in your head.

Count back the **part** you know.

The missing part is the last number you say!

or knowing
number facts

Counting up



$$5 - 2 =$$

2



Put the **part** in your head.

Count forward to the **whole**.

The missing part is how many fingers you have up!



How do you subtract?

$$5 - 2 =$$

I know that 5 is made of 2 and 3, so 5 subtract 3 is 2.



Number – multiplication and division

Statutory requirements

Pupils should be taught to:

- solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

summer term

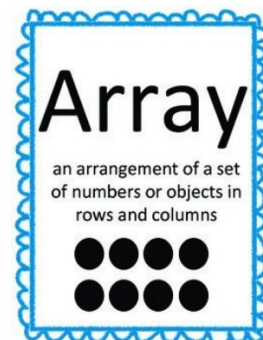
Complete the sentences



There are ____ groups of ____ pencils.



There are ____ groups of ____ flowers.



Year 1



Multiplication and Division

- Solve one- step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
- Through grouping and sharing small quantities, pupils begin to understand: multiplication and division; doubling numbers and quantities; and finding simple fractions of objects, numbers and quantities.
- They make connections between arrays, number patterns and counting in twos, fives and tens.

Teachers and/or pupils may demonstrate these strategies on a numbered number line supported by a variety of materials.

Counting in steps of different sizes

Counting

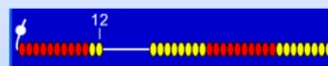
Laying foundations for multiplying and dividing by maximising opportunities when counting. Progress from counting in ones, to skip counting / repeated addition.



Use 100 grid to discuss patterns counting in 2s, 5s and 10s



Counting in twos



Counting on and back ITP



Cuisenaire on number track



Counting on fingers

UNITISING



Unitising—Children need to understand that one object can represent more than one item. E.g. a 2p coin or a piece

COUNTING



Using Numicon or Cuisenaire for doubles.

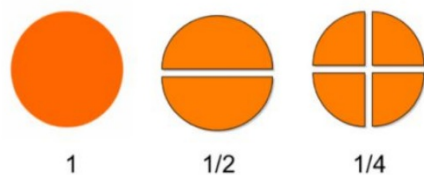
Number – fractions

Statutory requirements

Pupils should be taught to:

- recognise, find and name a half as one of two equal parts of an object, shape or quantity
- recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.

Whole, Half, Quarter



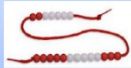
Year 1



Multiplication and Division

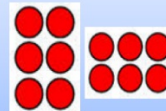
Calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

Lots of and groups of the same thing.



Arrays

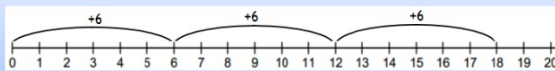
Arrays can be used to support children in their understanding the structure of multiplication and division.



MODELS

One step problems involving multiplication and division

Jill has 3 bags of oranges and each has six oranges in it. How many oranges does she have?



Sharing

There are eight sweets and four boys. How many sweets does each boy get?



Grouping

24 eggs are packed into boxes of 6. Put 6 eggs in the first box and continue until there are none left. How many boxes are needed?



Measurement

Statutory requirements

Pupils should be taught to:

- compare, describe and solve practical problems for:
 - lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]
 - mass/weight [for example, heavy/light, heavier than, lighter than]
 - capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]
 - time [for example, quicker, slower, earlier, later]
- measure and begin to record the following:
 - lengths and heights
 - mass/weight
 - capacity and volume
 - time (hours, minutes, seconds)
- recognise and know the value of different denominations of coins and notes
- sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]
- recognise and use language relating to dates, including days of the week, weeks, months and years
- tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.



Geometry – properties of shapes

Statutory requirements

Pupils should be taught to:

- recognise and name common 2-D and 3-D shapes, including:
 - 2-D shapes [for example, rectangles (including squares), circles and triangles]
 - 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].

Notes and guidance (non-statutory)

Pupils handle common 2-D and 3-D shapes, naming these and related everyday objects fluently. They recognise these shapes in different orientations and sizes, and know that rectangles, triangles, cuboids and pyramids are not always similar to each other.

Geometry – position and direction

Statutory requirements

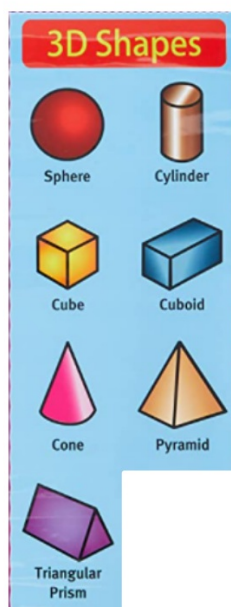
Pupils should be taught to:

- describe position, direction and movement, including whole, half, quarter and three-quarter turns.

Notes and guidance (non-statutory)

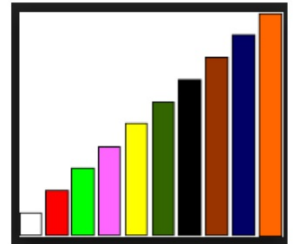
Pupils use the language of position, direction and motion, including: left and right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and down, forwards and backwards, inside and outside.

Pupils make whole, half, quarter and three-quarter turns in both directions and connect turning clockwise with movement on a clock face.



Number bonds

It is essential that children first work with concrete objects to understand and work out the bonds.



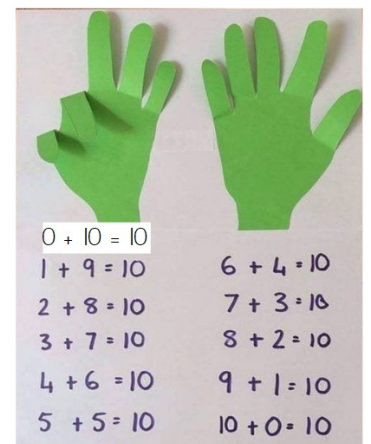
Number bonds

How many ways? (Using resources)

Writing bonds systematically and discussing patterns

Learning the bonds from memory

Using and applying this knowledge



How to help at home



Positive messages about maths

Essential principles

With thanks to Professor Jo Boaler, Professor of Mathematics Education at the Stanford Graduate School of Education for her guiding words of wisdom.

1

Encourage children to play maths puzzles and games. Puzzles and games will help children enjoy maths, and develop number sense, which is critically important.

2

Always be encouraging and avoid telling children they are wrong when they are working on maths problems. Instead find the logic in their thinking; there is always some logic to what they say.

3

Never associate maths with speed. It is not important to work quickly, and we now know that forcing children to work quickly on maths can cause maths anxiety for children. Instead of speed drills use visual, fun activities.

4

Be positive about maths even if your feelings about your own maths education is not!



Incorporate maths into daily routines



Odd and even patterns

Counting forwards and backwards



Shape hunts
Direction games



Measures in everyday play



"I'm thinking of a number"



Fluency of bonds,
addition and subtraction
facts



Year 1

0+0	1+0	2+0	3+0	4+0	5+0	6+0	7+0	8+0	9+0	10+0
0+1	1+1	2+1	3+1	4+1	5+1	6+1	7+1	8+1	9+1	10+1
0+2	1+2	2+2	3+2	4+2	5+2	6+2	7+2	8+2	9+2	10+2
0+3	1+3	2+3	3+3	4+3	5+3	6+3	7+3	8+3	9+3	10+3
0+4	1+4	2+4	3+4	4+4	5+4	6+4	7+4	8+4	9+4	10+4
0+5	1+5	2+5	3+5	4+5	5+5	6+5	7+5	8+5	9+5	10+5
0+6	1+6	2+6	3+6	4+6	5+6	6+6	7+6	8+6	9+6	10+6
0+7	1+7	2+7	3+7	4+7	5+7	6+7	7+7	8+7	9+7	10+7
0+8	1+8	2+8	3+8	4+8	5+8	6+8	7+8	8+8	9+8	10+8
0+9	1+9	2+9	3+9	4+9	5+9	6+9	7+9	8+9	9+9	10+9
0+10	1+10	2+10	3+10	4+10	5+10	6+10	7+10	8+10	9+10	10+10

0-0	1-0	2-0	3-0	4-0	5-0	6-0	7-0	8-0	9-0	10-0
1-1	2-1	3-1	4-1	5-1	6-1	7-1	8-1	9-1	10-1	11-1
2-2	3-2	4-2	5-2	6-2	7-2	8-2	9-2	10-2	11-2	12-2
3-3	4-3	5-3	6-3	7-3	8-3	9-3	10-3	11-3	12-3	13-3
4-4	5-4	6-4	7-4	8-4	9-4	10-4	11-4	12-4	13-4	14-4
5-5	6-5	7-5	8-5	9-5	10-5	11-5	12-5	13-5	14-5	15-5
6-6	7-6	8-6	9-6	10-6	11-6	12-6	13-6	14-6	15-6	16-6
7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7	15-7	16-7	17-7
8-8	9-8	10-8	11-8	12-8	13-8	14-8	15-8	16-8	17-8	18-8
9-9	10-9	11-9	12-9	13-9	14-9	15-9	16-9	17-9	18-9	19-9
10-10	11-10	12-10	13-10	14-10	15-10	16-10	17-10	18-10	19-10	20-10

Regular and often

Raise the profile of maths in line with reading.

Work on number bonds and basic addition and subtraction fluency in particular.

Follow the home learning letter information to continue to add to skills.



Maths Games

Learning numbers up to 20 -

<https://www.topmarks.co.uk/learning-to-count/todays-number-up-to-20>

Good for formation, recognising numerals, one more and one less

Ordering and Sequencing Number

<https://www.topmarks.co.uk/ordering-and-sequencing/caterpillar-ordering>

Number bonds – numbers up to and including 5

<https://ictgames.com/saveTheWhale/oldcdn.html>

Can you balance the scales?

<https://mathszone.co.uk/resources/NumberBalance/>

Good for part + part = whole or finding the missing part

Hit the Button –

<https://www.topmarks.co.uk/maths-games/hit-the-button>

Good for number bonds, doubling and halving. If you select number bonds, they children can work on all aims listed on the left-hand side. (Get confident on 'up to 10' section first – up to 20 is taught in the spring term)

Subtraction to 10 -

<https://www.topmarks.co.uk/subtraction/subtraction-to-10>



Get to know the number

<https://ictgames.com/mobilePage/getToKnow/index.html>



Number families – [https://www.topmarks.co.uk/number-fact-families](https://www.topmarks.co.uk/number-facts/number-fact-families)

Good for addition and subtraction up to 10 (autumn term) and up to 20 (spring term). Showing links with addition and subtraction

Adding and subtracting -

<https://www.topmarks.co.uk/maths-games/robot-more-or-less>

Choose a number to add or subtract. Then match the questions to the answer.

Noticing and completing patterns -

<https://www.topmarks.co.uk/ordering-and-sequencing/shape-patterns>

Select Level 1 or Level 2

Place value

<https://www.topmarks.co.uk/learning-to-count/place-value-basketball>

Select number up to 19

Money

<https://www.topmarks.co.uk/money/toy-shop-money>

Good for either repeated addition (adding using 5ps for example) or for using coins to make a price. This is taught in the summer term but you can use this to pre-teach or once we have learnt in class. Children have less contact with coins now so this can be helpful.

Interactive resources not games to assist with understanding

Tens frames - <https://ictgames.com/mobilePage/tenFrame/index.html>

Disposes - <https://ictgames.com/mobilePage/placeValuePieces/index.html>



home learning



Home > Our School > Phases (EYFS, Key Stage 1, Key Stage 2) > Key Stage 1 > 01. Year 1 > 02. Helpful Support & Resources

Our School

A warm welcome

Academic results

Admissions (Nursery, Reception year) >

Aims and values

Eco-school

Financial information

Gold Club

Governing body

House system

Our School Pledges

Phases (EYFS, Key Stage 1, Key Stage 2) >

Pupil voice

School dog

Special Educational Needs and >

How to help at home

Spelling at home

Maths at home

Maths Fluency Card Information

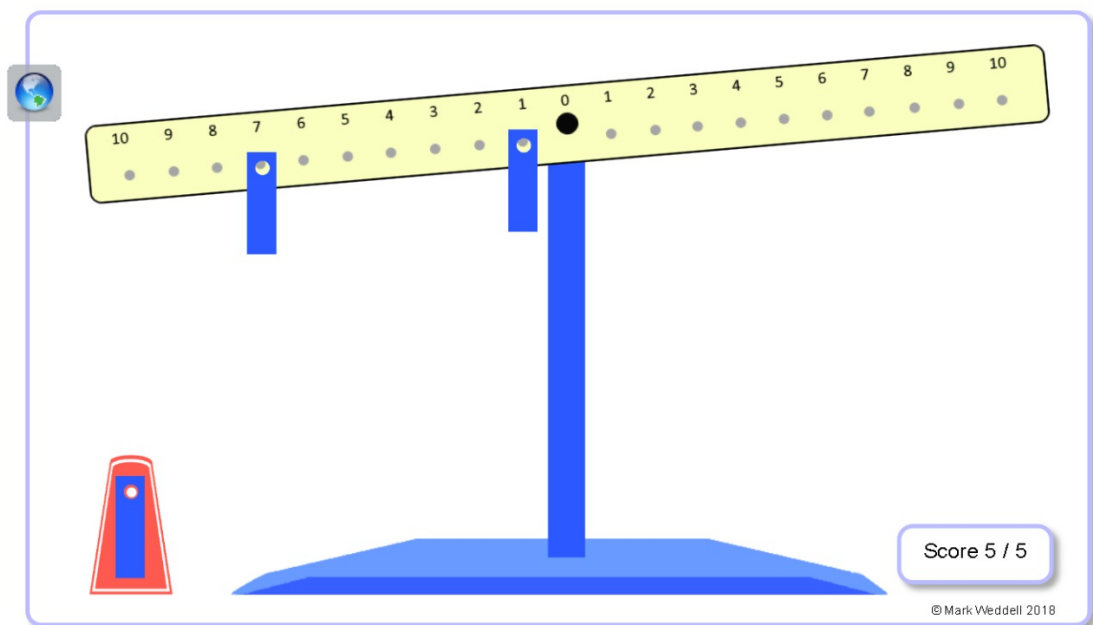
Addition and Subtraction Fluency chart

Year 1 Interactive Maths Games

0+0	1+0	2+0	3+0	4+0	5+0	6+0	7+0	8+0	9+0	10+0
0+1	1+1	2+1	3+1	4+1	5+1	6+1	7+1	8+1	9+1	10+1
0+2	1+2	2+2	3+2	4+2	5+2	6+2	7+2	8+2	9+2	10+2
0+3	1+3	2+3	3+3	4+3	5+3	6+3	7+3	8+3	9+3	10+3
0+4	1+4	2+4	3+4	4+4	5+4	6+4	7+4	8+4	9+4	10+4
0+5	1+5	2+5	3+5	4+5	5+5	6+5	7+5	8+5	9+5	10+5
0+6	1+6	2+6	3+6	4+6	5+6	6+6	7+6	8+6	9+6	10+6
0+7	1+7	2+7	3+7	4+7	5+7	6+7	7+7	8+7	9+7	10+7
0+8	1+8	2+8	3+8	4+8	5+8	6+8	7+8	8+8	9+8	10+8
0+9	1+9	2+9	3+9	4+9	5+9	6+9	7+9	8+9	9+9	10+9
0+10	1+10	2+10	3+10	4+10	5+10	6+10	7+10	8+10	9+10	10+10

1-0	2-0	3-0	4-0	5-0	6-0	7-0	8-0	9-0	10-0
1-1	2-1	3-1	4-1	5-1	6-1	7-1	8-1	9-1	10-1
2-2	3-2	4-2	5-2	6-2	7-2	8-2	9-2	10-2	11-2
3-3	4-3	5-3	6-3	7-3	8-3	9-3	10-3	11-3	12-3

Can you balance the scales?





Hit the button

Menu |

0 1 2 3

4 5 6

7 8 9 10

Number Bonds
Make 10

Timer: 0:58 Score: 0/0

topmarks

Menu 5 + 4

0 1 2 3

4 5 6

7 8 9 10

Number Bonds
Addition Within 10

Timer: 0:56 Score: 1/1

topmarks

Menu 9 - ? = 1

0 1 2 3

4 5 6

7 8 9 10

Number Bonds
Missing Numbers

Timer: 0:55 Score: 0/0

topmarks

Menu Double 6

0 2 4 6

8 10 12

14 16 18 20


Doubles
Doubles to 10

Timer: 0:53 Score: 1/1

topmarks









tally:

|||| |

deines:


 

one fewer: 18

19

one more: 20


nineteen

 odd

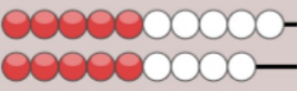
ten frame:

●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●

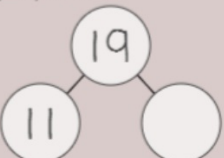
place value counters:




rekenrek:



part part whole:



cuisenaire:







Thank you for coming!

