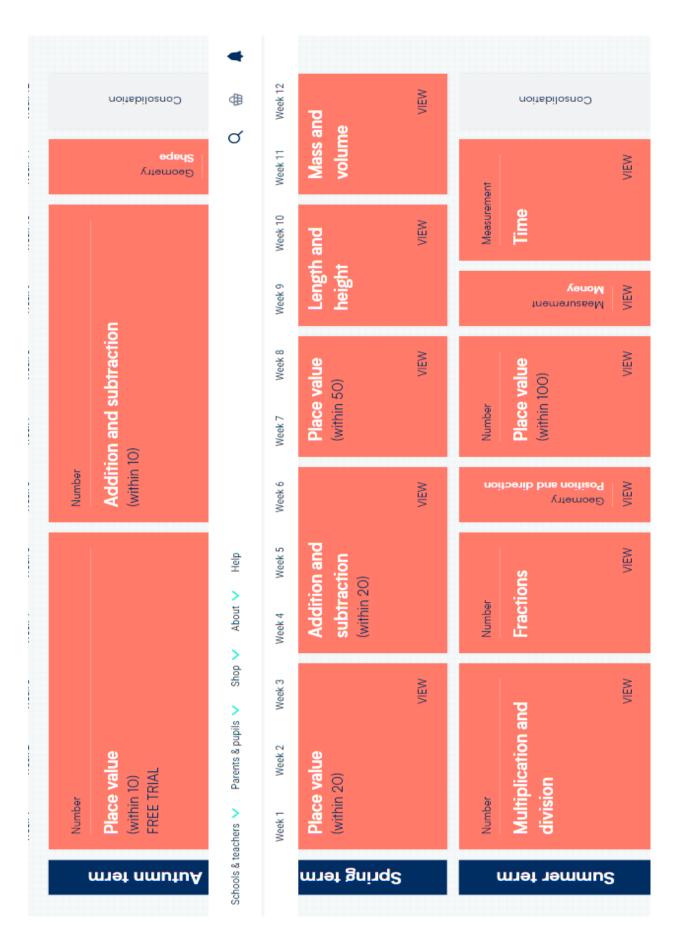


Year I Learning guide

Maths

What will be covered in year I



By the end of Year I,, children are expected to have been taught...

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 $7 = \square 9$.

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.

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.

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:

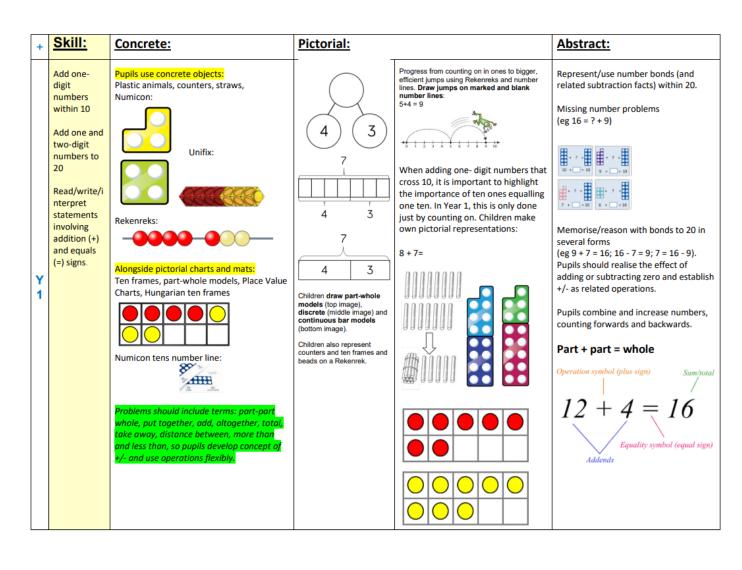
- recognise and name common 2-D and 3-D shapes, including:
 - 2-D shapes [for example, rectangles (including squares), circles and triangles]
 - 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].

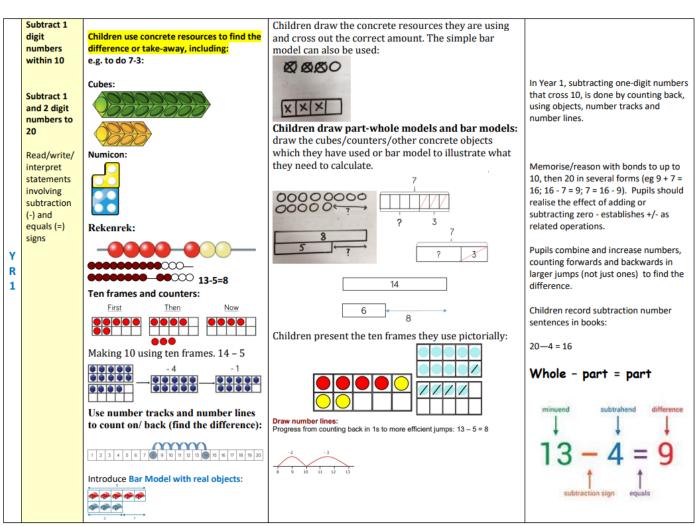
Geometry - position and direction

Statutory requirements

Pupils should be taught to:

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







Count in steps of 2, 5 and 10

Υ

R

1

/

2

Yr2: Calculate statements for multiplication within the 2x, 5x, 10x and 3x multiplication tables and write them using the multiplication

and equals signs.

[Show multiplication of two numbers can be done in any order.] Use concrete resources and real objects and contexts to develop understanding:

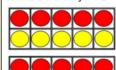




Numicon and numicon number lines, bead strings/Rekenrek

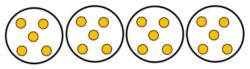
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counters and ten frames:

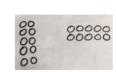


, bead strings., number tracks and number lines. Build arrays with counters.

Encourage children to draw equal groups of:

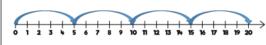


Encourage children to draw arrays, bar models and other representations:





Draw jumps on marked and blank number lines:



In year 1 children count in steps of 2, 5 and 10

Children represent multiplication as repeated addition:

5 + 5 + 5 + 5 = 20

They are not expected to record multiplication using x symbol. In Year 1, children use concrete and pictorial representations to solve problems.

In Year 2, children are introduced to the multiplication symbol:

4 x 5 = 20

5 x 4 = 20

... groups of ...=...

Multiplication:



Yr1: Solve one step problems using multiplication (sharing)

Recall & use division facts for the 2,3, 5 and 10 multiplication tables.
Calculate statements within the multiplication tables and write them using the division and equals signs. [Show division of two numbers cannot be done

in any order.]

Yr2:

Use concrete and real objects in real life contexts:



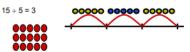
Children use sharing circles and part-whole and bar model mats to share counters, numicon and base ten equally:



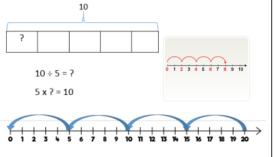


Link division to multiplication by creating arrays and thinking about the number sentences that can be created.

Draw arrays and number lines (first modelled using Numicon and Number lines/ beads/ rekenreks/counters/objects)



Draw part-whole and bar models: Grouping on a number line:



In Year 1, children use concrete and pictorial representations to solve problems. They are not expected to record division formally.

Children solve problems by grouping and counting the number of groups. Grouping encourages children to count in multiples and links to repeated subtraction on a number line. They can use concrete representations in fixed groups such as number shapes which helps to show the link between multiplication and division.

In Year 2, children are introduced to the division symbol:

12 shared between 3 is 4

12 + 3 = 4

Literacy—writing

By the end of each term, children are expected to...

Autumn Term

Most letters formed correctly
Spell words by segmenting sounds
Use CL for names and 'I'
Attempt to use CL and FS
Leaving finger spaces
Begin to use adjectives to describe a noun
Attempt to use simple past tense verbs using
'ed'

Spring Term

Sometimes using CL and FS correctly
Attempt to use?!
Begin to write simple sentences
Use adjectives to describe a noun
Begin to use verbs for an action
Sometimes use 'and' to join ideas
Sometimes use because/but
Begin to use time connectives to sequence
Begin to use past tense correctly using 'ed'

Summer Term

Mostly use CL and FS accurately
Sometimes using?!
Write simple sequenced sentences
Use adjectives, nouns and verbs
Often using the conjunctions - and, but, because
Use time connectives to sequence
Sometimes using past tense correctly using 'ed'
and some irregular verbs
Spell plurals with s/es

Literacy—reading

By the end of the year children should...

Y1	
Decoding/ Fluency	respond with the correct sound to graphemes for all 40+ phonemes read accurately by blending sounds read a range of simple common exception words e.g. the, said, they, once, she, friend, school read words with the endings -s, -es, -ing, -ed and -est. read words of more than one syllable containing known GPCs read contractions e.g. I'm, can't, we'll read pseudo words, including digraphs and trigraphs recite some familiar complete rhymes and songs by heart reading 60 wpm quickly recognise when reading has not made sense re-reading and self-correcting without prompting
Vocabulary	discuss word meanings, linking new meanings to those already known draw upon knowledge of vocabulary to understand the text join in with predictable phrases use vocabulary given by the teacher discuss favourite words and phrases join in automatically with predictable phrases discuss and clarify meaning of more challenging words
Inference	make simple inferences about characters' feelings by using what they say as evidence infer simple points with reference to the pictures and words in the text discuss the title and events demonstrate simple inference from the text based on what is said and done make inferences with confidence referring to the text
Prediction	predict what might happen based on what has been read about the story, character and plot make simple predictions based on the story and on their own life experience begin to explain these ideas verbally or through pictures
Explain	give opinion including likes and dislikes link what has been read or heard own experiences explain their understanding of what has been read express views about events or characters clearly explain their understanding of what has been read
Retrieval	answer questions about what has just happened in a story recognise characters, events, titles and information recognise differences between fiction and non-fiction texts retrieve information by finding a few key words contribute ideas and thoughts in discussion
Sequence	retell familiar stories orally e.g. fairy stories and traditional tales sequence the events of a familiar story begin to discuss how events are linked securely know a range of stories, retelling them orally independently without support

Children should be able to read these....

Year 1 Common Exception Words (NC)				
the	а	do		
to	today	of		
said	says	are		
were	was	is		
his	has	I		
you	your	they		
be	he	me		
she	we	ask		
go	SO	no		
by	my	here		
there	where	friend		
love	come	some		
one	once	school		
put	push			
pull	full			
house	our			

Phase 2 grapheme information sheet

Autumn 1

Grapheme and mnemonic	Picture card	Pronunciation phrase	Formation phrase
SS	snake	Show your teeth and and let the s hiss out ssssss ssssss	Down the snake from head to tail.
a	astronaut	Open your mouth wide and make the a sound at the back of your mouth a a a	Around the astronaut's helmet and down into space.
t	tiger	Open your lips; put the tip of your tongue behind your teeth and press t t t	Down the tiger and across its neck.
p	penguin	Bring your lips together, push them open and say p p p	Down the penguin's back, up and around its head.
i	iguana	Pull your lips back and make the i sound at the back of your mouth i i i	Down the iguana and dot the leaf.
n	net	Open your lips a bit, put your tongue behind your teeth and make the nnnn sound nnnn	Down, up and over the net.
m	mouse	Put your lips together and make the mmmmm sound mmmmm	Down, up and over the mouse's ears.

Phase 2 grapheme information sheet

Autumn 2

Grapheme and mnemoni	c	Picture card	Pronunciation phrase	Formation phrase
	j	jellyfish	Pucker your lips and show your teeth use your tongue as you say j j j	Down the jellyfish and dot its head.
	V	volcano	Put your teeth against your bottom lip and make a buzzing vvvv vvvv	Down to the bottom of the volcano and back up to the top.
	W	wave	Pucker your lips and keep them small as you say w w w	Down and up and down and up the waves.
	X	box	Mouth open, then push the cs/x sound through as you close your mouth cs cs cs (x x x)	From the top, across the box to the bottom. From the top again across the box to the bottom.
	y	yoyo	Smile, tongue to the top of your mouth, say y without opening your mouth yyy	Down, around the yo-yo and curl round the string.
	Z	zebra	Show me your teeth and buzz the z sound zzzzz zzzzz	Across the top of the zebra's head, zig-zag down its neck and along.

How to say the Phase 3 sounds

Grapheme	Catchphrase	Pronunciation phrase	Grapheme	Catchphrase	Pronunciation phrase
ai	tail in the rain	Open your mouth wide and say ai ai ai	00	hook a book	Pucker your lips and keep them small as you say oo oo oo
ee	sheep in a jeep	Smile with your lips apart and say ee ee ee	00	zoom to the moon	Open your mouth just a bit, put your hand on your tummy, pull your tummy in and say
igh	a light in the night	Open your mouth in a relaxed way and say igh igh igh	ar	march in the dark	Open your mouth wide, push your tongue down and say ar ar ar
oa	soap that goat	Make an 'o' with your mouth and say oa oa oa	or	born with a horn	Make an 'o' with your mouth, push your tongue down and say or or or

Grapheme	Catchphrase	Pronunciation phrase	Grapheme	Catchphrase	Pronunciation phrase
ur	curl the fur	Open your mouth in a relaxed way, push your tongue down and say ur ur ur	ear	get near to hear	Smile with your lips apart, push your tongue to your teeth as you say ear ear ear
	curt tite jui			get near to near	
OW	wow owl	Open your mouth wide then move your lips together as you say ow ow ow	air	chair in the air	Open your mouth wide, push your tongue down as you say air air air
oi	boing boing	Make an 'o' with your mouth then move your lips out as you say oi oi oi	er	a bigger digger	Open your mouth in a relaxed way, push your tongue down and say ur ur ur

Grapheme	Catchphrase	Pronunciation phrase	Phase 5 Graphemes
ear	get near to hear	Smile with your lips apart, push your tongue to your teeth as you say ear ear ear	ere ear
air	chair in the air	Open your mouth wide, push your tongue down as you say air air air	are ere ear
zh		Pucker your lips and show your teeth; push the air over your tongue as you say zh zh	su si

^{*}depending on regional accent

Grow the code grapheme mat Phase 2, 3 and 5

			3. ab						
S		E.		9	I Want				
S	t	р	n	m	d	g	С	r	h
SS	tt	pp	nn	mm	dd	99	k	rr	
С			kn	mb			ck	wr	
se			gn				CC		
ce							ch		
st									
SC									
8	¥		Ĵ						
b	f	l	j	V	W	Х	y	Z	qu
bb	ff	ll	g	VV	wh			ZZ	·
	ph	le	dge	ve				S	
		al	ge					se	
								ze	
4			O				J.	E SANS	
ch	sh	th	ng	nk	a	е	i	0	u
tch	ch					ea	y	а	о-е
ture	ti						_		ou
	ssi								
	si								
	ci								

Grow the code grapheme mat Phase 2, 3 and 5

					yoo	Å.	
ai	ee	igh	oa	©00		00	ar
ay	ea	ie	0	ue	ue	u^*	a*
а	е	i	0-е	u-e	u	oul	al*
а-е	е-е	i-e	ou	ew	u-e		
eigh	ie	y	oe	ou	ew		
aigh	y		OW	ui			
ey	ey						
ea							
			学		**	zh	
or	ur	ow	oi	ear	air		
aw	er	ou	oy	ere	are	su	
au	ir			eer	ere	si	
aur	or				ear		
oor							
al							
а							
oar							
ore							

^{*}depending on regional accent

How to write capital letters

Use this document to ensure correct letter formation when you are teaching children to form capital letters.

Letter	Capital letter formation phrase					
Α	From the top, diagonally down to the left, up to the top, diagonally down to the right. Lift up					
	and across.					
В	From the top, down, back to the top. Round to the middle, round to the bottom.					
С	From the top, curl around to the left to sit on the line.					
D	From the top, down, back to the top. Curve right, down to the bottom.					
Е	From the top, down, back to the top. Across, back. Lift up and across the middle. Lift up and across the bottom line.					
F	From the top, down, back to the top. Across, back. Lift up and across the middle.					
G	From the top, curl around to the line, carry on up, then straight down. Lift up and across.					
Н	From the top and down. Space. From the top and down. Lift up and join the lines across the middle.					
I	From the top to the bottom and stop.					
J	From the top, all the way down, then short curl to the left.					
K	From the top, down, up to the middle. Diagonally up, back and diagonally down to the line.					
L	From the top, down and across the line.					
М	From the top, down, back to the top. Diagonally down, diagonally up. Straight down to the line.					
N	From the top, down, back to the top. Diagonally down, then straight up to the top.					
0	From the top — all around the o.					
Р	From the top, down then back up. Curve right to halfway down.					
Q	From the top — all around the o. Lift off. Short line diagonally down.					
R	From the top, down, then back up. Curve right to halfway down. Diagonally down to the line.					
S	From the top, under the snake's chin, slide down and round its tail.					
T	From the top, down and stop. Lift up and from the left, make a line across the top.					
U	From the top, down and curve right, then straight up to the top.					
٧	From the top diagonally right to the bottom, then diagonally up to the top.					
W	From the top diagonally right to the bottom, diagonally up to the top, diagonally down to the line, then diagonally up again.					
Х	From the top, diagonally right to the bottom. Space. Start at the top, then diagonally left to the bottom.					
Y	From the top diagonally right to the middle. Space. From the top diagonally left to the middle. Straight down to the bottom.					
Z	From the top go across, diagonally down to the left and across the bottom.					