



## Mathematics Vocabulary Progression document (YR-Y6)

This document is designed to assist with the teaching of vocabulary across EYFS, KS1 and KS2 and is aligned with the White Rose schemes of learning, R2 long-term overviews and R2 knowledge organisers.

The words in bold signify in which year group this vocabulary should be introduced to the children.

However, these words should be consolidated and revisited as children move through the school. This version carries the words over into the subsequent year groups, there is a scaled down version available also.

Some vocabulary might be introduced earlier (shapes for instance) if necessary or as part of an activity, however this document ensures coverage is progressive. There is also some language that is only listed in Reception and not continued, as it is more general tier 1 vocabulary. This document is fully editable so language can be moved into earlier or later year groups where necessary.

**Number - Number and place value**

<b>Reception</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
count	count	count	count	count	count	count
subitise	subitise	subitise	subitise	subitise	subitise	subitise
	sort	sort	sort	sort	sort	sort
		count in steps	count in steps	count in steps	count in steps	count in steps
		count in multiples	count in multiples	count in multiples	count in multiples	count in multiples
	represent	represent	represent	represent	represent	represent
order/ordinal	order/ordinal	order/ordinal	order/ordinal	order/ordinal	order/ordinal	order/ordinal
			ascending	ascending	ascending	ascending
			descending	descending	descending	descending
				negative numbers	negative numbers	negative numbers
				Roman numerals	Roman numerals	Roman numerals
compare	compare	compare	compare	compare	compare	compare
forwards	forwards	forwards	forwards	forwards	forwards	forwards
backwards	backwards	backwards	backwards	backwards	backwards	backwards
numerals	numerals	numerals	numerals	numerals	numerals	numerals
digit	digit	digit	digit	digit	digit	digit
	multiples	multiples	multiples	multiples	multiples	multiples
one more	one more	one more	one more	one more	one more	one more
one less	one less	one less	one less	one less	one less	one less
			10 or 100 more	10 or 100 more	10 or 100 more	10 or 100 more
			10 or 100 less	10 or 100 less	10 or 100 less	10 or 100 less
				1000 more	1000 more	1000 more
				1000 less	1000 less	1000 less
equal to	equal to	equal to	equal to	equal to	equal to	equal to
more than	more than	more than	more than	more than	more than	more than
less than (fewer)	less than (fewer)	less than (fewer)	less than (fewer)	less than (fewer)	less than (fewer)	less than (fewer)
		place value	place value	place value	place value	place value

	<b>partitioning</b>	partitioning	partitioning	partitioning	partitioning	partitioning
	<b>ones</b>	ones	ones	ones	ones	ones
	<b>tens</b>	tens	tens	tens	tens	tens
			<b>hundreds</b>	hundreds	hundreds	hundreds
				<b>thousands</b>	thousands	thousands
					<b>ten thousands</b>	ten thousands
					<b>one hundred thousands</b>	one hundred thousands
						<b>millions</b>
						<b>ten millions</b>
		<b>estimate</b>	estimate	estimate	estimate	estimate
		<b>compare</b>	compare	compare	compare	compare
				<b>round</b>	round	round
					<b>powers of</b>	powers of
					<b>integer</b>	integer

**Addition and subtraction**

<b>Reception</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>add</b>	<b>addition/add</b>	addition/add	addition/add	addition/add	addition/add	addition/add
<b>plus</b>	plus	plus	plus	plus	plus	plus
<b>altogether</b>	altogether	altogether	altogether	altogether	altogether	altogether
<b>total</b>	total	total	total	total	total	total
		<b>sum</b>	sum	sum	sum	sum
<b>take away /minus</b>	take away /minus	take away /minus	take away /minus	take away /minus	take away /minus	take away /minus
	<b>subtraction</b>	subtraction	subtraction	subtraction	subtraction	subtraction
	<b>difference</b>	difference	difference	difference	difference	difference
	<b>equals</b>	equals	equals	equals	equals	equals
<b>number bonds</b>	number bonds	number bonds	number bonds	number bonds	number bonds	number bonds
	<b>facts</b>	facts	facts	facts	facts	facts
<b>part</b>	part	part	part	part	part	part
<b>whole</b>	whole	whole	whole	whole	whole	whole
	<b>problems</b>	problems	problems	problems	problems	problems
	<b>missing number problems</b>	missing number problems	missing number problems	missing number problems	missing number problems	missing number problems
<b>digit</b>	digit	digit	digit	digit	digit	digit
	<b>2 digit number</b>	2-digit number	2-digit number	2-digit number	2-digit number	2-digit number
		<b>3-digit number</b>	3-digit number	3-digit number	3-digit number	3-digit number
				<b>4-digit number</b>	4-digit number	4-digit number
		<b>commutative</b>	commutative	commutative	commutative	commutative
	<b>inverse</b>	inverse	inverse	inverse	inverse	inverse
			<b>column addition</b>	column addition	column addition	column addition
			<b>column subtraction</b>	column subtraction	column subtraction	column subtraction
			<b>exchange</b>	exchange	exchange	exchange
			<b>estimate</b>	estimate	estimate	estimate
				<b>operations</b>	operations	operations
				<b>methods</b>	methods	methods

**Multiplication and division**

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<b>multiplication</b>	multiplication	multiplication	multiplication	multiplication	multiplication
<b>double</b>	double	double	double	double	double	double
<b>half</b>	half	half	half	half	half	half
	<b>division</b>	division	division	division	division	division
<b>equal</b>	equal	equal	equal	equal	equal	equal
<b>unequal</b>	unequal	unequal	unequal	unequal	unequal	unequal
<b>share</b>	share	share	share	share	share	share
<b>group</b>	group	group	group	group	group	group
	<b>arrays</b>	arrays	arrays	arrays	arrays	arrays
		<b>multiplication tables</b>	multiplication tables	multiplication tables	multiplication tables	multiplication tables
<b>odd</b>	odd	odd	odd	odd	odd	odd
<b>even</b>	even	even	even	even	even	even
		<b>commutative</b>	commutative	commutative	commutative	commutative
		<b>repeated addition</b>	repeated addition	repeated addition	repeated addition	repeated addition
<b>twice as many</b>			<b>exchange</b>	exchange	exchange	exchange
			<b>mathematical statements</b>	mathematical statements	mathematical statements	mathematical statements
			<b>missing number problems</b>	missing number problems	missing number problems	missing number problems
			<b>integer scaling problems</b>	integer scaling problems	integer scaling problems	integer scaling problems
			<b>correspondence problems</b>	correspondence problems	correspondence problems	correspondence problems
			<b>derived facts</b>	derived facts	derived facts	derived facts
				<b>factor pairs</b>	factor pairs	factor pairs
				<b>formal written layout</b>	formal written layout	formal written layout
				<b>distributive law</b>	distributive law	distributive law
					<b>multiples</b>	multiples
					<b>factors</b>	factors
					<b>prime numbers</b>	prime numbers

					<b>square numbers</b>	square numbers
					<b>cube numbers</b>	cube numbers
					<b>short division</b>	short division
				<b>remainders</b>	remainders	remainders
					<b>product</b>	product
					<b>dividend</b>	dividend
					<b>divisor</b>	divisor
					<b>quotient</b>	quotient
						<b>multi-digit numbers</b>
						<b>long division</b>

**Fractions/Decimals/Percentages**

<b>Reception</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>whole</b>	whole	whole	whole	whole	whole	whole
<b>half</b>	half	half	half	half	half	half
	<b>quarter</b>	quarter	quarter	quarter	quarter	quarter
		<b>three quarters</b>	three quarters	three quarters	three quarters	three quarters
		<b>third</b>	third	third	third	third
					<b>fifth</b>	fifth
	<b>equal parts</b>	equal parts	equal parts	equal parts	equal parts	equal parts
				<b>decimal equivalence</b>	decimal equivalence	decimal equivalence
				<b>decimal point</b>	decimal point	decimal point
			<b>tenths</b>	tenths	tenths	tenths
				<b>hundredths</b>	hundredths	hundredths
					<b>thousandths</b>	thousandths
		<b>unit fractions</b>	unit fractions	unit fractions	unit fractions	unit fractions
		<b>non-unit fractions</b>	non-unit fractions	non-unit fractions	non-unit fractions	non-unit fractions
		<b>numerator</b>	numerator	numerator	numerator	numerator
		<b>denominator</b>	denominator	denominator	denominator	denominator
		<b>equivalent fractions</b>	equivalent fractions	equivalent fractions	equivalent fractions	equivalent fractions
		<b>one whole</b>	one whole	one whole	one whole	one whole
				<b>convert</b>	convert	convert
				<b>proper fractions</b>	proper fractions	proper fractions
				<b>improper fractions</b>	improper fractions	improper fractions
					<b>mixed numbers</b>	mixed numbers
					<b>per cent %</b>	per cent %
					<b>factors</b>	factors
					<b>integer</b>	integer
					<b>complements</b>	complements

**Ratio and proportion**

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						relative size
						missing values
						integer multiplication
						percentages
						scale factor
						unequal sharing & grouping

**Algebra**

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						formulae
						linear number sequences
						algebraically
						equation
						unknowns
						combinations
						variables





**Measurement (Height, Weight and Capacity)**

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>height</b>	height	height	height	height	height	height
<b>long(er)/short(er)</b>	long(er)/short(er)	long(er)/short(er)	long(er)/short(er)	long(er)/short(er)	long(er)/short(er)	long(er)/short(er)
<b>tall(er)/short(er)</b>	tall(er)/short(er)	tall(er)/short(er)	tall(er)/short(er)	tall(er)/short(er)	tall(er)/short(er)	tall(er)/short(er)
	<b>mass</b>	mass	mass	mass	mass	mass
<b>weight</b>	weight	weight	weight	weight	weight	weight
<b>heavy/light</b>	heavy/light	heavy/light	heavy/light	heavy/light	heavy/light	heavy/light
<b>heavier than</b>	heavier than	heavier than	heavier than	heavier than	heavier than	heavier than
<b>lighter than</b>	lighter than	lighter than	lighter than	lighter than	lighter than	lighter than
<b>big/bigger/biggest</b>		<b>kilogram kg</b>	kilogram kg	kilogram kg	kilogram kg	kilogram kg
		<b>gram g</b>	gram g	gram g	gram g	gram g
<b>capacity</b>	capacity	capacity	capacity	capacity	capacity	capacity
	<b>volume</b>	volume	volume	volume	volume	volume
<b>full/empty</b>	full/empty	full/empty	full/empty	full/empty	full/empty	full/empty
<b>more than</b>	more than	more than	more than	more than	more than	more than
<b>less than</b>	less than	less than	less than	less than	less than	less than
<b>half/half full</b>	half/half full	half/half full	half/half full	half/half full	half/half full	half/half full
		<b>quarter full</b>	quarter full	quarter full	quarter full	quarter full
		<b>three-quarters full</b>	three-quarters full	three-quarters full	three-quarters full	three-quarters full
		<b>litres l</b>	litres l	litres l	litres l	litres l
		<b>millilitres ml</b>	millilitres ml	millilitres ml	millilitres ml	millilitres ml
					<b>cubic centimetre</b>	cubic centimetre
						<b>cubic metre</b>
						<b>cubic millimetre</b>
						<b>cubic kilometre</b>
		<b>Temperature</b>	Temperature	Temperature	Temperature	Temperature



	<i>days of the week</i>	<i>days of the week</i>	<i>days of the week</i>	<i>days of the week</i>	<i>days of the week</i>	<i>days of the week</i>
	<i>months of the year</i>	<i>months of the year</i>	<i>months of the year</i>	<i>months of the year</i>	<i>months of the year</i>	<i>months of the year</i>
<b>day</b>	day	day	day	day	day	day
<b>week</b>	week	week	week	week	week	week
	<b>month</b>	month	month	month	month	month
	<b>year</b>	year	year	year	year	year
	<b>o'clock</b>	o'clock	o'clock	o'clock	o'clock	o'clock
	<b>half past</b>	half past	half past	half past	half past	half past
<b>hour</b>	hour	hour	hour	hour	hour	hour
<b>minutes</b>	minute	minute	minute	minute	minute	minute
	<b>second</b>	second	second	second	second	second
		<b>intervals of time</b>	intervals of time	intervals of time	intervals of time	intervals of time
		<b>quarter past/to</b>	quarter past/to	quarter past/to	quarter past/to	quarter past/to
			<b>analogue clock</b>	analogue clock	analogue clock	analogue clock
			<b>Roman numerals</b>	Roman numerals	Roman numerals	Roman numerals
			<b>12-hour clock</b>	12-hour clock	12-hour clock	12-hour clock
			<b>24-hour clock</b>	24-hour clock	24-hour clock	24-hour clock
			<b>a.m./p.m.</b>	a.m./p.m.	a.m./p.m.	a.m./p.m.
			<b>noon</b>	noon	noon	noon
			<b>midnight</b>	midnight	midnight	midnight
			<b>leap year</b>	leap year	leap year	leap year
		<b>duration</b>	duration	duration	duration	duration
			<b>digital</b>	digital	digital	digital
				<b>convert</b>	convert	convert

**Measurement (Money)**

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<b>money</b>	money	money	money	money	money
	<b>coins</b>	coins	coins	coins	coins	coins
	<b>notes</b>	notes	notes	notes	notes	notes
	<b>pounds £</b>	pounds £	pounds £	pounds £	pounds £	pounds £
	<b>pence p</b>	pence p	pence p	pence p	pence p	pence p
		<b>value</b>	value	value	value	value
		<b>change</b>	change	change	change	change

**Geometry – Properties of Shape**

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>2-d shapes</b>	2-d shapes	2-d shapes	2-d shapes	2-d shapes	2-d shapes	2-d shapes
<b>rectangle</b>	rectangle	rectangle	rectangle	rectangle	rectangle	rectangle
<b>square</b>	square	square	square	square	square	square
<b>circle</b>	circle	circle	circle	circle	circle	circle
<b>triangle</b>	triangle	triangle	triangle	triangle	triangle	triangle
			<b>right-angle triangle</b>	right-angle triangle	right-angle triangle	right-angle triangle
				<b>isosceles</b>	isosceles	isosceles
				<b>equilateral</b>	equilateral	equilateral
				<b>scalene</b>	scalene	scalene
		<b>pentagon</b>	pentagon	pentagon	pentagon	pentagon
		<b>hexagon</b>	hexagon	hexagon	hexagon	hexagon
			<b>heptagon</b>	heptagon	heptagon	heptagon
			<b>octagon</b>	octagon	octagon	octagon
			<b>polygon</b>	polygon	polygon	polygon
				<b>trapezium</b>	trapezium	trapezium
				<b>rhombus</b>	rhombus	rhombus

				<b>parallelogram</b>	parallelogram	parallelogram
				<b>kite</b>	kite	kite
	<b>sides</b>	sides	sides	sides	sides	sides
	<b>corners</b>	corners	corners	corners	corners	corners
		<b>line of symmetry</b>	line of symmetry	line of symmetry	line of symmetry	line of symmetry
				<b>geometric shapes</b>	geometric shapes	geometric shapes
				<b>quadrilaterals</b>	quadrilaterals	quadrilaterals
<b>characteristics</b>	<b>properties</b>	<b>properties</b>	<b>properties</b>	properties	properties	properties
<b>3-d shapes</b>	3-d shapes	3-d shapes	3-d shapes	3-d shapes	3-d shapes	3-d shapes
<b>cuboids</b>	cuboids	cuboids	cuboids	cuboids	cuboids	cuboids
<b>cubes</b>	cubes	cubes	cubes	cubes	cubes	cubes
<b>cone</b>	cone	cone	cone	cone	cone	cone
	<b>pyramids</b>	pyramids	pyramids	pyramids	pyramids	pyramids
<b>spheres</b>	spheres	spheres	spheres	spheres	spheres	spheres
		<b>cylinder</b>	cylinder	cylinder	cylinder	cylinder
		<b>edges</b>	edges	edges	edges	edges
		<b>vertices</b>	vertices	vertices	vertices	vertices
		<b>vertex</b>	vertex	vertex	vertex	vertex
	<b>faces</b>	faces	faces	faces	faces	faces
			<b>prism</b>	prism	prism	prism
						<b>radius</b>
						<b>diameter</b>
						<b>circumference</b>
					<b>regular polygon</b>	regular polygon
					<b>irregular polygon</b>	irregular polygon
						<b>dimensions</b>
<b>curved</b>	curved	curved	curved	curved	curved	curved
<b>straight</b>	straight	straight	straight	straight	straight	straight
<b>flat</b>	flat	flat	flat	flat	flat	flat

Geometry – Properties of shape (2)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			<b>orientations</b>	orientations	orientations	orientations
			<b>angles</b>	angles	angles	angles
			<b>acute angle</b>	acute angle	acute angle	acute angle
			<b>obtuse angle</b>	obtuse angle	obtuse angle	obtuse angle
					<b>reflex angles</b>	reflex angles
					<b>degrees</b>	degrees
					<b>one whole turn</b>	one whole turn
					<b>angles on straight line</b>	angles on straight line
					<b>angles around a point</b>	angles around a point
					<b>vertically opposite</b>	vertically opposite
					<b>missing angles</b>	missing angles
			<b>turn</b>	turn	turn	turn
			<b>right angles</b>	right angles	right angles	right angles
			<b>half turn</b>	half turn	half turn	half turn
			<b>three quarters of a turn</b>	three quarters of a turn	three quarters of a turn	three quarters of a turn
			<b>greater than right angle</b>	greater than right angle	greater than right angle	greater than right angle
			<b>less than right angle</b>	less than right angle	less than right angle	less than right angle
			<b>horizontal lines</b>	horizontal lines	horizontal lines	horizontal lines
			<b>vertical lines</b>	vertical lines	vertical lines	vertical lines
			<b>perpendicular lines</b>	perpendicular lines	perpendicular lines	perpendicular lines
			<b>parallel lines</b>	parallel lines	parallel lines	parallel lines

**Geometry – Position and direction**

<b>Reception</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>over</b>	<b>position</b>	position	position	position	position	position
<b>under</b>	<b>direction</b>	direction	direction	direction	direction	direction
<b>between</b>	<b>movement</b>	movement	movement	movement	movement	movement
<b>around</b>	<b>whole turn</b>	whole turn	whole turn	whole turn	whole turn	whole turn
<b>through</b>	<b>quarter turn</b>	quarter turn	quarter turn	quarter turn	quarter turn	quarter turn
<b>on</b>	<b>half turn</b>	half turn	half turn	half turn	half turn	half turn
<b>into</b>	<b>three-quarter turn</b>	three-quarter turn	three-quarter turn	three-quarter turn	three-quarter turn	three-quarter turn
<b>next to</b>		<b>clockwise/anti-clockwise</b>	clockwise/anti-clockwise	clockwise/anti-clockwise	clockwise/anti-clockwise	clockwise/anti-clockwise
<b>behind</b>		<b>straight line</b>	straight line	straight line	straight line	straight line
<b>beneath</b>		<b>rotation</b>	rotation	rotation	rotation	rotation
<b>order</b>	order	order	order	order	order	order
<b>repeat</b>		<b>arrange</b>	arrange	arrange	arrange	arrange
<b>patterns</b>	patterns	patterns	patterns	patterns	patterns	patterns
<b>on top of</b>		<b>sequences</b>	sequences	sequences	sequences	sequences
				<b>co-ordinates</b>	co-ordinates	co-ordinates
				<b>first quadrant</b>	first quadrant	first quadrant
						<b>four quadrants</b>
				<b>grid</b>	grid	grid
				<b>translation</b>	translation	translation
				<b>plot</b>	plot	plot
				<b>polygon</b>	polygon	polygon
					<b>reflection</b>	reflection
				<b>axis</b>	axis	axis
						<b>co-ordinate plane</b>



**Statistics**

<b>Reception</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
		<b>pictograms</b>	pictograms	pictograms	pictograms	pictograms
		<b>tally chart</b>	tally chart	tally chart	tally chart	tally chart
		<b>block diagram</b>	block diagram	block diagram	block diagram	block diagram
			<b>table</b>	table	table	table
					<b>timetable</b>	timetable
			<b>bar chart</b>	bar chart	bar chart	bar chart
				<b>time graph</b>	time graph	time graph
				<b>discrete data</b>	discrete data	discrete data
				<b>continuous data</b>	continuous data	continuous data
				<b>line graph</b>	line graph	line graph
					<b>two-way tables</b>	two-way tables
						<b>pie chart</b>
		<b>category</b>	category	category	category	category
		<b>sorting</b>	sorting	sorting	sorting	sorting
		<b>totalling</b>	totalling	totalling	totalling	totalling
		<b>comparing</b>	comparing	comparing	comparing	comparing
				<b>comparison problem</b>	comparison problem	comparison problem
				<b>sum problem</b>	sum problem	sum problem
				<b>difference problem</b>	difference problem	difference problem
			<b>one-step problem</b>	one-step problem	one-step problem	one-step problem
			<b>two-step problem</b>	two-step problem	two-step problem	two-step problem
				<b>calculate</b>	calculate	calculate
				<b>interpret</b>	interpret	interpret
						<b>mean</b>
		<b>horizontal</b>	horizontal	horizontal	horizontal	horizontal
		<b>vertical</b>	vertical	vertical	vertical	vertical

