

# Number and place value

Number: Counting and number properties					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
number count / counting forwards backwards count on countback zero twenty-one twenty-two twenty-three twenty-four up to ninety-nine odd even pattern steps of multiple subitise	numeral hundreds step counting count in multiples	one hundred and one one hundred and two one hundred and three up to one thousand integer / integers decimal / decimals decimal notation ascending descending	thousands Roman numerals (up to 100 / C) negative numbers positive numbers	ten thousand hundred thousand millions Roman numerals (up to 1000 / M) power / powers of prime number complement composite (non-prime) square number square / squared / (d) <sup>2</sup> cube number cube / cubed / (d) <sup>3</sup> integer	millions ten million

Number: Place value, ordering and comparing					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
value digit same different one / ones ten / tens hundred column one-digit two-digit more / more than less / less than fewer/ fewer than equal / equal to / = not equal most fewest least first second third fourth fifth up to twentieth order amount size	place value partition place holder estimate estimation half-way three-digit equivalent greater than > less than < digit <i>mid-point</i> <i>quartile</i>	round / rounding / rounded approximately / $\approx$ nearest ten nearest hundred nearest whole three-digit	nearest thousand four-digit	nearest million nearest hundred thousand linear sequence equivalence	interval multi-digit

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number line larger / largest bigger / biggest smaller / smallest estimate compare between above below middle sort sequence equivalent greater than > less than < digit <i>consecutive</i> <i>greatest</i> <i>benchmark</i> <i>near / nearer</i> <i>far</i> <i>close to</i>					
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Number: Calculation					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
total / in total sum plus add / addition / + altogether combine number bond difference distance between subtract / subtraction / - minus take away / taken away how much how many bonds start / change/ result facts problems missing number problems left / leftover part whole unknown number sentence equal equally unequal pair	commutative inverse calculate multiplication division times tables multiplication table repeated addition reordering mental method written method reduce increase combination multiply / multiplied fact family calculation divide remainder multiple / multiples <i>rebalancing</i> product divisible	column addition column subtraction multiple(s) inverse operations remainder associative law short multiplication base fact comparison long division correspondence scaling integer scaling quotient statements derived facts formal written layout product divisible <i>decomposition</i> distributive law	operation / operations methods factor factor pairs derive distributive law	prime factor common factor short division long multiplication <i>dividend</i> <i>divisor</i>	long division common multiples order of operations brackets abstract variables BIDMAS

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group / grouped grouping share / shared sharing double / doubling / doubles twice as each half / halving / halves lots of groups of times array <i>regroup / regrouping</i> <i>addend</i> <i>subtrahend</i> <i>minuend</i> <i>bar model</i> remainder multiple / multiples					
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Fractions:					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
half / halve / halves quarter / quarters one-quarter two-quarters three-quarters sharing group / groups grouping part whole equal parts same size bar numerator denominator equal / equally  fraction notation $\frac{1}{2}$ $\frac{1}{4}$	two-quarters third one-third two-thirds equivalent / equivalence one whole one and a quarter one and two-quarters one and a half one and three-quarters half as much twice as much numerator denominator  fraction notation $\frac{1}{3}$ $\frac{2}{4}$ $\frac{3}{4}$	fifths sixths sevenths eighths ninths tenths order unit-fraction non-unit fraction discrete continuous	hundredths decimal equivalents decimal places decimal point proportion convert proper fractions improper fractions	mixed numbers thousandths per cent / % percentages	simplify degrees of accuracy

Measurement: Time					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
year month week day weekday weekend chronological order days of the week Monday Tuesday Wednesday Thursday Friday Saturday Sunday months of the year January February March April May June July August September October November December	analogue quarter past / to five / ten / past / to clockwise anticlockwise noon midday midnight intervals of time	Roman numerals to XII am ( <i>ante meridiem</i> ) pm ( <i>post meridiem</i> ) duration analogue clock digital digital clock 12-hour clock 24-hour clock event leap year	convert conversion		

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night hour minute second morning afternoon evening yesterday today tomorrow before after old / older new / newer clock / clock face o'clock half past birthday watch hour minute minutes past / to quarter past / to half past fast / faster / fastest quick / quicker / quickest slow / slower / slowest early earlier late / later time					
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Measurement: Mass					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
weigh weight heavy heavier / heavier than heaviest light lighter / lighter than lightest balance (weighing) scales ruler mass gram Kilogram	kilogram / kg scale			pound / lb	stones ounces
Measurement: Length					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
height long / longer / longest tall / taller / tallest short / shorter / shortest wide / wider / widest narrow / narrower / narrowest centimetre metre	height width metre / m centimetre / cm scale standard units millimetre / mm	perimeter length millimetre / mm	rectilinear figure area dimensions kilometre / km	composite metric units Imperial units inch / inches / in foot / feet / ft yard mile centimetre squared (cm <sup>2</sup> ) metre squared (m <sup>2</sup> )	

far distance measure				compound shape	
<b>Measurement: Capacity</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>
volume full / fuller / fullest empty / emptier / emptiest more than less than half full half quarter capacity	litre / l millilitre / ml scale quarter full three-quarters full			pint / pt centimetres cubed (cm <sup>3</sup> ) metres cubed (m <sup>3</sup> )	millimetres cubed (mm <sup>3</sup> ) centimetres cubed (cm <sup>3</sup> ) metres cubed (m <sup>3</sup> ) gallons
<b>Measurement: Money</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>
coin / coins note / notes amount penny / p pound / £ one penny two pence five pence ten pence twenty pence fifty pence	price cost amount change value				

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combination money					
<b>Measurement: Temperature</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>
	temperature degrees Celsius / °C thermometer scale				
<b>Measurement: Speed</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>
					miles per hour (mph) metres per second (m/s) kilometres per hour (km/h)

Geometry: Shape properties					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
pattern 2-D / two-dimensional rectangle / rectangles square / squares circle / circles kite / kites triangle / triangles 3-D / three-dimensional cube / cubes cuboid / cuboids pyramid / pyramids cylinder / cylinders sphere / spheres side / sides line straight curved / flat open / closed shape corner base point diagonal pentagon / pentagons hexagon / hexagons heptagon / heptagons octagon / octagons opposite	vertical horizontal vertex / vertices edge / edges face / faces quadrilateral / quadrilaterals polygon / polygons pentagon / pentagons hexagon / hexagons heptagon / heptagons octagon / octagons prism / prisms cone / cones symmetry line of symmetry surface mirror line properties classify opposite regular irregular	orientation degree / degrees angle right angle perpendicular parallel horizontal vertical quadrilateral polyhedron polyhedral acute angle obtuse angle reflection orientation three-dimensions right-angle triangle internal angle congruent	classify nonagon / nonagons decagon / decagons isosceles scalene equilateral parallelogram / parallelograms trapezium / trapeziums protractor adjacent regular irregular rhombus / rhombuses geometric shapes internal angle congruent	diagonal point reflection straight line (180°) one whole turn (360°) reflex angle regular polygon irregular polygon angles around a point missing angle diagonal net	dissect / dissection net radius diameter circumference vertically opposite complementary angles dimensions composite exterior angle intersect

Geometry: Position and direction					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
left right top middle bottom on top of in front of behind between above below beneath around near close far up down forwards backwards inside outside clockwise repeated position direction movement whole turn	sequence rotate rotation angle right angle straight line arrange anti-clockwise row column north south east west compass	north south east west compass	co-ordinates pairs of coordinates/ coordinate pairs first quadrant plot grid translate translation axis / axes scale label x-axis y-axis	x-axis y-axis	co-ordinate plane four quadrants

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quarter turn half-turn three-quarter turn full turn underneath to the side next anti-clockwise row column					
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Statistics					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	pictogram tally chart tallies block diagram table data category / categories key sorting totalling comparing horizontal vertical <i>Venn diagram</i> <i>Carroll diagram</i> block graph scale title frequent survey axis / axes	bar chart block graph scale title interpret frequent survey discrete data continuous data label inferring	label graph time graph x-axis y-axis line graph inferring variable	timetables two-way tables axis pie chart	pie chart mean average data set variable conversion graph convert

Ratio and proportion					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	times as many for every			per	times as many per for every relative size scale factor proportion ratio (a:b) comparison scaling scale factor part to part part to whole

Algebra					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			variable rule	equation	symbol letter sequence algebraic / algebraically equation unknown variable constant generalise expression rule combinations