

## Maths Key Vocabulary Progression

The vocabulary within each unit of work is progressive. Pupils should have a sound understanding of what each word means. Each year group builds on the vocabulary from the previous year group. Therefore, ensure the pupils understand and can use the vocabulary from the previous year.

	Y2	Y3	Y4	Y5	Y6
1. Place value	digit tens ones place value grid partition more fewer fewest greatest smallest partition	hundreds (100s) tens (10s) ones (1s) digit place value more less greater than (>) less than (<) equal to order compare partition estimate exchange	tens hundreds thousands rounding order more than (>) less than (<) partition numeral nearest distance ascending descending rounding negative multiple greater than (>) less than (<)	ones (1s) tens (10s) hundreds (100s) thousands (1,000s) ten thousands (10,000s) hundred thousands (100,000s) million (1,000,000) round order ascending descending less than (<) greater than (>) sequence	ten thousands (10,000s) hundred thousands (100,000s) millions (1,000,000s) ten million (10,000,000) place value partition interval estimate compare order rounding negative positive
2. Addition and subtraction	fact family number sentence number bond column 10 more 10 less total tens ones subtract difference bar model represent	addition subtraction mental method column method exchange estimate approximate/ly digit	addition total more than (>) subtraction less than (<) column method estimate how much strategy efficient accurate exact fact diagram	add subtract ones (1s) tens (10s) hundreds (100s) thousands (1,000s) ten thousands (10,000s) mentally inverse round estimate sum	column addition column subtraction estimate
3. Multiplication and division	equal groups multiplication (x) times-table times divide (÷) division share	equal multiply divide times-table sharing grouping array	multiply (x) divide (÷) multiplication fact division fact lots of groups of times-table	prime number composite number square number cube number square (2) cube (3) inverse operation	multiplication short division long division remainder factor estimate common factor

	group odd even	bar model remainder repeated addition multiplication sentence division statement division fact partition	array partition array bar model part-whole model remainder factor pair factor commutative	multiply divide multiple factor prime factor	common multiple prime composite squared (2) cubed (3) order of operations brackets inverse operation
4. Fractions, decimals and percentages	whole equal equal parts $\frac{1}{2}$ fraction denominator fraction bar numerator $\frac{1}{4}$ $\frac{3}{4}$ third $\frac{1}{3}$ unit fraction non-unit fraction equivalent	equal parts whole unit fraction equation integer non-unit fraction numerator denominator represent share group mixed number whole number divide set of objects multiply tenth interval equivalent fraction inequality statement	tenths hundredths equivalent simplify numerator denominator fraction mixed number improper fraction simplest fraction fraction of an amount decimal point decimal 0-1 and 0-01 decimal place	equivalent numerator denominator whole fraction simplify division mixed number convert sequence proper fraction improper fraction convert common denominator fraction of an amount operator decimal decimal place tenth hundredth thousandth decimal point place value digit fraction per cent (%) percentage one decimal place two decimal places	numerator denominator common denominator common factor equivalent simplify simplest form highest common factor lowest common multiple (LCM) compare order ascending descending proper fraction improper fraction mixed number convert lowest common denominator recurring decimal percent percentage (%)
5. Position and direction	clockwise anticlockwise forwards backwards left right		reflection rotation position horizontal vertical up	reflection translation vertex vertices coordinates mirror line	quadrant four quadrants translate translation x-axis y-axis

	middle turn half turn quarter turn three-quarter turn		down left right coordinates square rectangle plot vertex vertices point grid	horizontal axis vertical axis	axis axes horizontal vertical vertex reflect reflection
6. Shape	quadrilateral polygon pentagon hexagon vertex vertices line of symmetry symmetrical octagon hemisphere curved surface edge prism	right angle acute obtuse parallel perpendicular vertical horizontal triangle quadrilateral kite trapezium rhombus parallelogram cuboid triangular prism square-based pyramid cone cylinder sphere edge face vertices	rectangle square rectilinear shape unit triangle quadrilateral reflection rotation regular irregular interior angle angle acute obtuse right angle symmetrical isosceles scalene equilateral line of symmetry reflective symmetry	angle whole turn right angle acute angle obtuse angle reflex angle degree (°) interior angle clockwise anticlockwise orientation parallel perpendicular angle right angle interior angle quadrilateral view regular irregular 3D shape pyramid sphere cone hexagon pentagon triangle top view plan view side view	area volume perimeter parallelogram height enclosed width length square centimetre (cm <sup>2</sup> ) square metre (m <sup>2</sup> ) base estimate formula compound shape cubic centimetre (cm <sup>3</sup> ) cubic metre (m <sup>3</sup> )
7. Measure	mass heavier than lighter than gram (g)	length height width perimeter	length width perimeter distance	perimeter distance area space	metric imperial unit of measurement (or measure) gram (g)

	hundreds kilogram (kg) volume millilitre (ml) litre (l) temperature degrees Celsius (°C) thermometer	distance centimetre (cm) millimetre (mm) metre (m) unit of measurement measure equivalent convert greater than (>) less than (<) ruler metre stick interval scale	rectangle square rectilinear shape centimetre (cm) metre (m) kilometre (km) equivalent to	length width centimetre square centimetre (cm <sup>2</sup> ) metre square metre (m <sup>2</sup> ) scale compare estimate formula  convert metric unit imperial unit kilo kilogram gram millimetre centimetre metre kilometre litre millilitre pound (lb) ounce (oz) inch (in) foot (ft) yard (yd) pint gallon stone (st) approximately  volume solid capacity calculate estimate unit cube	kilogram (kg) pound (lbs) ounce (oz) mass millilitre (ml) litre (l) pint capacity millimetre (mm) centimetre (cm) metre (m) kilometre (km) inch (in) foot (ft) yard (yd) mile length convert conversion table conversion graph
8. Time	o'clock half past quarter past quarter to minute hand	month year midnight midday am	convert compare unit of time second minute		

	hour hand duration	pm duration estimate consecutive hour minute second past to start end digital clock analogue clock	hour day week month year 12-hour 24-hour analogue digital am/pm		
9. Money	pound (£) pence (p) coin note change	pounds (£) pence (p) convert total difference change	notes coins pounds (£) pence (p) add subtract change round to the nearest order greater than (>) less than (<) cheaper more expensive estimate over estimate under estimate total		
10. Algebra					sequence rule term algebra expression calculation formula substitute generalise operation calculate equation inverse solution
11. Ratio					ratio

					proportion part whole scale scale factor similar notation
12. Statistics	tally chart pictogram key	pictogram key bar chart scale table row column vertical axis horizontal axis	data line graph pictogram bar chart table altogether more than (>) greatest smallest continuous data compare	graph line graph table dual line graph horizontal vertical two-way table scale axis/axes data plot/plotted tallies/tally digits	mean average pie chart segment line graph bar chart percentage fraction data