

PROGRESSION OF KEY MATHS VOCABULARY

STRAND	Y3	Y4	Y5	Y6
NUMBER – NUMBER AND PLACE VALUE	hundreds (100s) tens (10s) ones (1s) place value more less greater than (>) less than (<) equal to order compare estimate exchange	tens hundreds thousands rounding order more than (>) less than (<) partition numeral nearest distance thousands ascending descending rounding negative step 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) place value partition estimate round compare order equivalent greater than (>) less than (<) convert 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
NUMBER – ADDITION AND SUBTRACTION	addition subtraction mental method	addition total more than (>)	add subtract ones (1s)	as Y5

	<p>column method exchange estimate approximate approximately digit multiple</p>	<p>subtraction less than (<) column method estimate how much strategy efficient accurate exact fact diagram</p>	<p>tens (10s) hundreds (100s) thousands (1,000s) ten thousands (10,000s) mentally inverse round estimate distance chart</p>	
<p>NUMBER – MULTIPLICATION AND DIVISION</p>	<p>equal multiply divide times-table sharing grouping array bar model remainder repeated addition multiplication sentence division statement division fact multiplication number sentence compare more than (>) less than (<) greater than (>)</p>	<p>multiply (×) divide (÷) multiplication fact division fact lots of groups of times-table array multiply divide times-table partition array bar model part-whole model remainder factor pair factor commutative</p>	<p>prime number composite number square number cube number square cube inverse operation multiply divide factor prime factor add subtract place value partition equal factor multiple remainder</p>	<p>column multiplication short division long division remainder factor estimate factor common factor common multiple prime composite squared cubed order of operations brackets inverse operation</p>

	<p> equals (=) equally least most share partition multi-step </p>		<p> sum total </p>	
<p> NUMBER - FRACTIONS </p>	<p> 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 compare add subtract fraction </p>	<p> tenths hundredths equivalent simplify numerator denominator fraction mixed number improper fraction simplest fraction add subtract fraction of an amount tens ones decimal point decimal centimetre millimetre 0.1 and 0.01 whole number rounding greater than (>) less than (<) </p>	<p> equivalent numerator denominator whole fraction simplify expand division improper mixed number convert sequence order greater than (>) less than (<) equal to (=) add subtract proper fraction improper fraction convert simplify equivalent fraction </p>	<p> numerator denominator whole number common denominator common factor equivalent simplify simplest form factor highest common factor (HCF) lowest common multiple (LCM) compare order ascending descending proper fraction improper fraction mixed number convert lowest common denominator </p>

	<p>whole equivalent fraction greater than (>) less than (<) equal to multiply divide difference inequality statement</p>	<p>equal to (=) order compare convert decimal place ascending descending</p>	<p>efficient common denominator fraction of an amount operator equal parts decimal one decimal place two decimal places tenth hundredth thousandth decimal point place value digit fraction per cent (%) percentage column exchange</p>	<p>multiply divide decimal decimal place (dp) recurring decimal placeholder place value tenth hundredth thousandth product fraction per cent (%) percentage part whole divide share multiply convert equivalent fraction simplify less than (<) greater than (>)</p>
MEASUREMENT	<p>pounds (£) and pence (p) convert total difference change length</p>	<p>length width perimeter distance rectangle square</p>	<p>perimeter distance area space length width</p>	<p>metric imperial unit of measurement (or measure) gram (g) kilogram (kg)</p>

	<p>height width perimeter distance centimetre (cm) millimetre (mm) metre (m) unit of measurement measure add subtract multiply equivalent convert greater than (>) less than (<) ruler metre stick month year midnight midday am pm duration estimate consecutive hour minute second</p>	<p>rectilinear shape centimetre (cm) metre (m) kilometre (km) equivalent to area space unit least greatest triangle quadrilateral reflection rotation 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</p>	<p>centimetre square centimetre metre square metre scale compare estimate formula 2D shape brackets 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)</p>	<p>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 area volume perimeter parallelogram height enclosed width length square centimetre square metre base</p>
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	<p>past to start end duration digital clock analogue clock digital ante meridiem (am) post meridiem (pm) mass weigh measure scale interval gram (g) kilogram (kg) capacity litre (l) millilitre (ml) scale interval convert</p>	<p>total notation convert compare unit of time second minute hour day week month year 12-hour 24-hour analogue digital am/pm ante meridiem (am) post meridiem (pm)</p>	<p>approximately volume cube cuboid 3D shape solid capacity calculate estimate unit cube least greatest</p>	<p>estimate formula compound shape cubic centimetre cubic metre</p>
GEOMETRY	<p>right angle acute obtuse parallel perpendicular vertical horizontal</p>	<p>quadrilateral triangle regular irregular interior angle angle acute</p>	<p>angle whole turn right angle acute angle obtuse angle reflex angle degree (°)</p>	<p>quadrant four quadrants translate translation x-axis y-axis axis</p>

	<p>triangle quadrilateral kite trapezium rhombus parallelogram cuboid triangular prism square-based pyramid cone cylinder sphere edge face vertices clockwise anticlockwise</p>	<p>obtuse reflect right angle symmetrical isosceles scalene equilateral line of symmetry reflective symmetry position horizontal vertical up down left right coordinates square rectangle plot vertex vertices point grid</p>	<p>interior angle clockwise anticlockwise orientation parallel perpendicular quadrilateral view regular irregular 3D shape pyramid sphere cone hexagon pentagon triangle top view plan view side view reflection translation vertex vertices coordinates mirror line horizontal axis vertical axis</p>	<p>axes horizontal vertical vertex reflect reflection degree angle obtuse acute reflex right angle protractor triangle isosceles equilateral scalene regular polygon quadrilateral parallelogram kite rhombus trapezium diameter radius circumference concentric perimeter net</p>
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				pyramid tetrahedron cylinder prism vertically opposite angles cuboid cube
STATISTICS	pictogram key bar chart scale table row column vertical 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 kilometre (km) kilogram (kg) plot/plotted tallies/tally digits	mean average pie chart segment line graph bar chart percentage fraction data
RATIO AND PROPORTION				ratio proportion part whole scale scale factor similar notation

ALGEBRA

sequence
rule
term
algebra
expression
calculation
formula
substitute
generalise
operation
calculate
equation
inverse
solution

CHALLENGING

What comes next?
How many...?
Can you name the...?
Describe
What is...?
Which is true or false?
Identify
Explain how to
Sort
Compare
Match
Explain the sequence

Analyse
Think of another way to...
Investigate
Find all the outcomes
What problems can you see with...?
Evaluate
Describe how to solve
Give reasons for...
Can you justify your answer?
Describe the patterns
What sort of...?
Predict

Complete
Define
How do you...?
Solve
What do you need to know?
Calculate
Choose
Classify
Write a set of instructions to...

Can you create a new problem?
Design a...to...
What else do you need to know?