

# Hardwicke Whole School Mathematical Vocabulary Progression Document

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Number and Place Value</b>	tens ones digit number position More less greater larger smaller	tens exchange regroup ones digit column position between	hundreds tens exchange ones digit column position decrease increase tenths decimal point	hundreds thousands exchange tens ones digit columns value position increase decrease round multiple negative zero	hundred thousands ten thousands thousands hundreds tens ones exchange digit columns value position increase decrease round multiple negative positive zero	million hundred thousands ten thousands thousands hundreds tens ones exchange digit columns value position increase decrease round multiple negative positive zero
<b>Addition and Subtraction</b>	digit plus total altogether <b>addend</b> subtract take away left partition	<b>addend</b> sum total altogether partition tens ones digit column regroup <b>commutative</b> subtract difference	zero regroup ones tens hundreds total plus sum <b>addend</b> subtract <b>minuend</b> <b>subtrahend</b> exchange	sum thousands hundreds tens ones exchange bridge subtract difference partition regroup <b>minuend</b> <b>subtrahend</b> exchange	addition subtraction exchange regroup efficient	addition subtraction order of operations brackets
<b>Multiplication and Division</b>		multiply equal groups array rectangular columns rows product commutative divide grouping sharing factor product multiple odd even divisible	factor product multiple odd even divisible partition product regroup <b>dividend</b> divisor remainder	zero factor product multiple odd even divisible commutative multiplier <b>dividend</b> divisor remainder <b>quotient</b>	tenths hundredths thousandths column digit multiplier <b>dividend</b> divisor _ times larger _ times smaller prime composite factor multiple integer common factor divisible squared square cubed cube multiplier <b>multiplicand</b> product dividend divisor remainder	multiples common divisible factors prime multiplier <b>multiplicand</b> product divisor <b>dividend quotient</b> remainder multiplication division order of operations indices squared cubed
<b>Fractions</b>	whole part equal divided shared	part whole equal denominator numerator third quarter three- quarters half equivalent	denominator numerator unit fraction non-unit fraction equivalent fifths sixths sevenths eighths ninths tenths		multiples denominator numerator unit fraction non-unit fraction equivalent tenths hundredths thousandths percentage	simplify denominator numerator equivalent improper common multiple factor equivalent percent proper fraction improper fraction mixed number common denominator numerator denominator sum
<b>Ratio and Proportion</b>						equivalent percentage scale factor dimension similar
<b>Decimals</b>					thousandths hundredths tenths ones digit column round decimal place	tenths hundredths thousandths column digit

## Hardwicke Whole School Mathematical Vocabulary Progression Document

						<p>multiplicand multiplier dividend divisor _ times larger – times smaller</p>
<b>Geometry</b>	<p>between on top of above, below middle up, down left, right forwards, backwards position turn half quarter three-quarter solid 3-D shape face cuboid rectangle cube</p>	<p>2-D shape straight sides pentagon hexagon octagon symmetry 3-D shape vertex vertices edge face above below left right clockwise anti-clockwise quarter half three-quarter right angle sequence pattern rule repeating scale heavier than lighter than heaviest lightest gram kilogram half three-quarter right angle sequence pattern rule repeating</p>	<p>horizontal vertical parallel perpendicular equi-distant polygon triangle quadrilateral square hexagon pentagon octagon polyhedron cuboid cube prism pyramid cylinder cone sphere face edge vertex curved surface</p>	<p>angle acute obtuse right angle equilateral isosceles scalene quadrilateral parallel parallelogram rhombus trapezium kite adjacent classify property symmetry reflection</p>	<p>net square rectangle triangle polygon cube cuboid prism pyramid congruent translate translation reflect reflection parallel axes object image</p>	<p>coordinates axes x-axis y-axis quadrant negative positive origin translate reflect object image</p>
<b>Measurement</b>	<p>longer than shorter than longest shortest taller than shorter than tallest shortest centimetre</p>	<p>quarter past quarter to past to minute hour day part whole total sum spend change pence pounds coins notes</p>	<p>part whole total sum spend change pence pounds coins notes</p>		<p>convert metres centimetres millimetres litres millilitres kilograms grams metric imperial perimeter rectilinear inch pint pounds (lbs)</p>	<p>convert miles kilometres metres centimetres millimetres litres millilitres kilograms grams triangle parallelogram area perimeter base perpendicular height volume cuboid cube squared cubic cubed</p>
<b>Algebra</b>						
<b>Statistics</b>						

### Quick Reference:

**Minuend** - a quantity or number from which another is to be subtracted.

**Subtrahend** - a quantity or number to be subtracted from another.

**Addend**- a number which is added to another.

**Commutative** - you can swap numbers around and still get the same answer when you add, or when you multiply.

**Quotient**- The answer after we divide one number by another.

**Dividend**- The amount that you want to divide up.

**Multiplicand** - The number that gets multiplied.

If you are unsure of the meaning of any of the vocab used, please visit the NCTEM Glossary <https://www.ncetm.org.uk/media/hpihrj3s/national-curriculum-glossary.pdf>