

Thomas Whitehead Vocabulary Progression (based on NCETM - Maths Mastery and HfL Education – Essential Maths)

Red vocabulary - introduced in ESSENTIAL maths earlier than National Curriculum requirements.

Blue vocabulary - used in Herts ESSENTIAL maths which are in addition to National Curriculum requirements.

Number: Place value, ordering and comparing							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number Zero One Two Three Four Five Count None Amount Size	Number Number names to twenty (including zero) Pattern Subitise Rekenrek Tens frame Is made from... First Second Third Last Before After	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 <i>up to</i> twentieth order amount size number line larger/largest bigger/biggest smaller/smallest ompare between above below middle sort	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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		<p>sequence <i>equivalent</i> <i>greater than ></i> <i>less than < digit</i> consecutive greatest benchmark near / nearer far close to</p>					
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Number: Calculation

Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
More Less How many? Same Different Bigger Smaller	Altogether Count up Count back More than Less than Fewer than Compare Difference Sharing Doubling Halving	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 rebalancing 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 decomposition distributive law	operation / operations methods factor factor pairs derive distributive law	prime factor common factor short division long multiplication dividend divisor	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 halves halving lots of groups of times array <i>regroup/regrouping</i> <i>addend subtrahend</i> <i>minuend bar model</i> <i>remainder multiple</i> <i>multiples</i>					
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Fractions:							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Whole Parts	Half Equal Equal parts	half / halve / halves quarter / quarters onequarter two-quarters three-quarters sharing group / groups grouping part whole equal parts same size bar numerator denominator equal / equally $\frac{1}{2}$ $\frac{1}{4}$ fraction notation	two-quarters third one-third two-thirds equivalent / equivalence one whole one and a quarter one and twoquarters one and a half one and threequarters 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

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Measurement: Time							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Time Clock Today Tomorrow Yesterday Day Night Late Early Quick Slow	Monday Tuesday Wednesday Thursday Friday Saturday Sunday Later Earlier Hours Minutes Next Last Before After	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 night hour minute second morning	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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		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 N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Weigh Weight Heavy Light	Compare Heavier Lighter Scales Balance	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

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Measurement: Length							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Long Short Length Near Far Close height	Longer Shorter Taller Smaller High Low Wide Narrow Size compare	height long / longer / longest tall / taller / tallest short / shorter / shortest wide / wider / widest narrow / narrower/ narrowest centimetre metre far distance m easure	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 ²) metre squared (m ²) compound shape	

Measurement: Capacity

Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Full Empty Holds container	Half full More full Less full	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 ³) metres cubed (m ³)	millimetres cubed (mm ³) centimetres cubed (cm ³) metres cubed (m ³) gallons

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Measurement: Money							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Money Coin Cost Buy sell	Penny Pence Pound Price Spend pay	coin / coins note / notes amount penny / p pound / £ one penny two pence five pence ten pence twenty pence fifty pence combination money	price cost amount change value				

Measurement: Temperature							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Hot cold	Hotter Colder Warmer Cooler Temperature Thermometer		temperature degrees celsius thermometer scale				

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Measurement: Speed							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fast Slow	Faster Slower						Miles per hour (mph) Metres per second 9m/s) Kilometres per hour (km/h)

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Geometry: Shape properties							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Shape Round Straight Curved	Corner Side Flat Solid Rectangle Circle Square Triangle Cone Cube Sphere Pyramid	pattern 2-D / twodimensional rectangle / rectangles square / squares circle / circles kite / kites triangle / triangles 3D / threedimensional 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 threedimensions 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

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Geometry: Position and direction							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Up Down In Out In front Behind Over Under Outside inside	Beside Next to Between Middle Edge Direction Forwards Backwards Sideways Close Far Along Behind In front Apart Above Below	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 quarter turn half turn three quarter turn full turn underneath to the side next anti- clockwise row column	sequence rotate rotation angle right angle straight line arrange anticlockwise 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 yaxis	x-axis y-axis	co- ordinate plane four quadrants

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Statistics							
Year N	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Count	Count Sort Group Set List		pictogram tally chart tallies block diagram table data category / categories key sorting totalling comparing horizontal vertical <i>Venn diagram 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 N	Year R	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

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Algebra							
Year N	Year R	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