

Unit A

YR 9: FOUNDATION TIER: ASSESSING MY PROGRESS

Test Date:

Tick the 1st column when you've written your Book of Power notes.

The codes in the 2nd column are for the GCSE section on www.vle.mathswatch.co.uk/vle.

colour this column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any.

I understand place value in integers and decimals	1	I can use place value when multiplying and dividing	92
I understand the symbols = \neq < \leq > \geq	138	I can expand a single bracket	93
I can order positive and negative integers	2	I know angles on a straight line sum to 180° & can use it	45
I can order decimals	3	I know angles at a point sum to 360° & can use it	45
I can change between fractions, decimals and percentages	85	I can spot vertically opposite angles	120
I can find equivalent fractions	25	I can spot corresponding and alternate angles	120
I can simplify fractions	26	I know angles in a triangle sum to 180°	121,122
I can order fractions	70	I can prove angles in a triangle sum to 180°	121
I can add & subtract integers and decimals (show working)	17,18	I can write equations to solve angle problems	137
I can multiply integers & decimals (show working)	19,66	I recognise line symmetry and order of rotational symmetry	11
I can divide numbers (show working)	20	I know the names & properties of all 4 types of triangles	5
I can write improper fractions as mixed numbers & decimals	BOP	I know the names & properties of all 6 quadrilaterals	5
I can add and subtract fractions, including mixed numbers	71	I can tessellate shapes	12
I can multiply fractions, including mixed numbers	73	I can draw kites etc. on co-ordinate axis	113
I can write the reciprocal of integers and fractions	76	I can draw and understand pictograms	16
I can divide fractions, including mixed numbers	74	I can draw and understand bar charts and vertical line graphs	15,64
I can use BIDMAS to answer number sums	75	I can draw and understand time series & can use trend lines	153
I can use BIDMAS to substitute with algebra (including substituting into scientific formulae)	95	I can draw and understand pie charts	128
I understand the words: expressions, equations, formulae, identity, inequalities, terms and factors	BOP	I can draw and understand scatter graphs, recognise positive and negative correlation, draw and use lines of best fit	129
I can simplify algebra (adding and subtracting)	33	I can draw and understand frequency polygons	65
I can simplify algebra (multiplying and dividing)	34,35	I can draw and understand histograms (with equal intervals)	65

Unit B

YR 9: FOUNDATION TIER: ASSESSING MY PROGRESS

Italics = Revision

UNIT B TEST:

Tick the 1st column when you've written your Book of Power notes

The codes in the 2nd column match the topic clip on www.vle.mathswatch.co.uk/vle, GCSE section.

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I can work out multiples, common multiples and LCM	80	<i>I can simplify algebra; multiplying</i>	34
I can work out factors, common factors and HCF	79	<i>I can simplify algebra; division</i>	35
I can square and cube numbers	81	I can choose the right unit of measurement	BOP
I can $\sqrt{\quad}$ and $\sqrt[3]{\quad}$	81	I can change between metric units	112
I understand power notation	82	I can change between area units, including hectares	BOP
I can recognise powers of 2, 3, 4 and 5	82	I can change between volume units	BOP
I can use calculators to do sums with powers	BOP	I can do exchange between currencies (changing money)	105
I can use calculators to do sums with roots	BOP	I can do speed, distance, time calculations	142
I can work out prime numbers less than 100	28	I can change between units of speed	142
I know the rules of indices	131	I can calculate the perimeter of 2D shapes	52
I can simplify ratios	38	I can calculate the area of quadrilaterals	53,55,56
I can write ratios in the form 1:n	38	I can calculate the area of triangles	54
I can share quantities using ratios	106	<i>I can calculate the mean, mode, median & range</i>	62
I can use ratios in recipes	39	I can calculate mean from a frequency table	130
I can solve problems using ratios or proportion	42	I can solve problems using averages and range	BOP
I can apply ratios to scales on maps	38	I can sort data using a stem-and-leaf diagram	BOP
I can calculate "best buys" (best value for money)	41	I can calculate a median from a stem-and-leaf diagram	BOP

Unit C

YEAR 9: Foundation Tier: ASSESSING MY PROGRESS

Italics = Revision Topics

UNIT C TEST:

Tick the 1st column when you've written your Book of Power notes

The codes in the 2nd column match the topic clip on www.vle.mathswatch.co.uk/vle, GCSE section. Watch these to help you.

Colour the 2nd column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any.

I can multiply a whole number by a fraction	73	I can draw diagrams to scale	38
I can divide a whole number by a fraction (or vice versa)	74	I can correctly interpret scales in real-life contexts	38
I can calculate a fractions of amounts	72	I can use scales on maps and diagrams	38
I can express one number as a fraction of another	BOP	I can identify congruent shapes	12
I can express one number as a percentage of another	89	I can use the SSS, SAS, ASA, RHS rules to recognise congruent triangles	166
I can calculate percentages of amounts without a calculator	87	I can work out the scale factor of an enlargement	144
I can calculate percentages of amounts with a calculator	86	I can use similarity to calculate missing side lengths	144
I can use decimal multipliers to find fractions or percentages of amounts	BOP	I can calculate perimeters of similar shapes	52
I can use decimal multipliers to increase/decrease an amount by a percentage	BOP	I can work out the scale factor for area and volume	200
I can use decimal multipliers to add VAT and simple interest	BOP	I can record the outcome of experiments (tally tables)	15
I can convert between metric units of measurement	112	I can calculate relative frequency	125
I can use fractions, percentages and metric conversions to solve problems	BOP	I can calculate the probability of an event happening or not happening.	59
I can recognise the Triangular, Square numbers and the Fibonacci Sequence and continue sequences.	104 141	I can list all the outcomes of an event.	58
I can recognise and continue arithmetic progressions	104	I can draw and complete possibility spaces to find all the outcomes from two events	126
I can recognise and continue geometric progressions	163	I understand the words mutually exclusive	60
I can generate numbers in a sequence using the n th term.	102	I understand what independent events means	BOP

DO YOU HAVE YOUR MATHSWATCH LOGIN?

Unit D

YEAR 9: Foundation Tier: ASSESSING MY PROGRESS

Italics = Revision Topics

UNIT D TEST:

1st = colours, 2nd = BOP notes done, 3rd = GCSE Clip Numbers on www.vle.mathswatch.co.uk/vle.

<i>I can round numbers to the nearest integer, 10, 100 or 1000</i>		31	I know the properties of scalene triangles.		9
I can round decimals to 1, 2 or 3 decimal places.		32	I know the properties of isosceles triangles.		9
I can round decimals to 1, 2 or 3 significant figure.		90	I know the properties of equilateral triangles.		9
I can use rounding to estimate answers.		91	I know the properties of squares & rectangles.		9
I can estimate lengths, areas and costs.		91	I know the properties of parallelograms and a rhombus.		9
I understand the meaning of "inverse operation"		21	I know the properties of kites & trapeziums.		9
I can use function (number) machines		36	I can draw 3-D shapes on isometric paper.		BOP
I can substitute into formulae		95	<i>I can accurately draw diagrams to scale</i>		38
<i>I can solve one-step equations</i> e.g. $x + 5 = 7$ $y - 2 = -5$ $4m = 10$		100	<i>I can correctly interpret scales in real-life contexts</i>		38
I can solve two-step equations e.g. $5m - 3 = 7$ $\frac{1}{2}X + 4 = 10$ $18 = 4k + 6$		100	<i>I can use scales on maps and diagrams</i>		38
I can expand single brackets		93	I can find and use three figure-bearings		124
I can solve equations with brackets in. e.g. $3(m - 2) = 12$		100	I can put results from an experiment into a tally and frequency table.		15,65
I can name different types of triangles (scalene, isosceles, equilateral right-angled)		9	I can estimate probabilities from an experiment and know this can be different if I repeat the experiment.		125
I can name the different types of quadrilaterals (square, rectangle, parallelogram, rhombus, kite, trapezium)		9	I know that more trials = more reliable estimates.		125

Unit E

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UNIT E TEST:

1st = colours, 2nd = Tick when BOP notes done, 3rd = GCSE Section on www.vle.mathswatch.co.uk/vle

I understand place value in integers & decimals		1	I can recognise, name and plot straight lines		BOP
I understand negatives in real-life		23	parallel to the axis e.g. $x = 3$ and $y = -2$		
I can order positive and negative numbers		2	I can recognise & name the graphs $y=x$ and $y= -x$		BOP
I can use $< > \leq \geq = \neq$ when comparing numbers		5	I can name 3D shapes		43
I can + and - positive and negative numbers		68	I describe solids using the correct vocabulary: faces, edges, surface and vertices		43
I can \times and \div positive and negative numbers		68			
I can use BIDMAS with directed numbers		75	I can sketch the net of a cuboid		44
I can round to 1 significant figure		90	I can sketch planes of symmetry on 3D shapes		43
I can estimate the answer to a sum		91	I understand the meaning of "perpendicular"		BOP
I can \times and \div integers and decimals by 10,100,1000..		30	I've memorised & use area rectangle formula		53
I use one calculation to find the answer to another		92	I've memorised & use area triangle formula		54
I can write 1 million and 1 billion in figures		BOP	I've memorised & use area parallelogram form		55
I write 0.5 million, 0.25 million, 0.1 million in figures		BOP	I've memorised & use area trapezium formula		56
I can write large numbers in standard form & back		83	I can decide whether a 3D solid is a prism		119
I can write small numbers in standard form & back		83	I can work out the surface area of cubes / cuboids		114
I can use the power button on a calculator		BOP	I can calculate the surface area of other prisms		114
I can \times and \div numbers in standard form		83	I can count the volume of a shape in cubes.		BOP
I can + and - numbers in standard form		83	I've memorised & use volume cuboid formula		115
I can plot co-ordinates in all 4 quadrants e.g. (3,2) (-5,3) (-6,-8)		8	I can calculate the volume of a triangular prism; i.e. Toblerone box		119
I can write co-ordinates of a point on the grid.		8	I can identify the cross-section of a prism		119
I can find the midpoint of two co-ordinates		133	I've memorised & can do volume of a prism		119
I can use linear equations to fill in an x-y table, then plot the points and join with a ruler		96	I've memorised & can do volume of cylinder		119
			I understand use of random sampling in real-life		152
I can recognise which equations will be parallel from their equations		97	I understand the need for sampling		152
			I understand how to avoid bias		152

