

Unit A

YEAR 10 :FOUNDATION: ASSESSING MY PROGRESS

UNIT TEST:

Colour the 1st column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any.

Tick the 2nd column when you've written your Book of Power notes.

The codes in the 3rd column are for the **GCSE New 2015 Spec section on www.mathswatchvle.com**

I can add and subtract whole numbers & decimals in my head	17,18	I know $3y$ means $y + y + y$ and also means $3y$	7
I can multiply and divide numbers by 10, 100, 1000	30	I know a^2 means $a \times a$ and a^3 means $a \times a \times a$	7
I can add and subtract decimals (written methods)	17	I know a^2b means $a \times a \times b$	7
I can multiply integers	19	I know a/b means $a \div b$	7
I can multiply decimals	66	I can simplify like terms e.g. Simplify $2a + 3b - 5a - b + 4$	33
I can divide integers	20	I can simplify (multiplying)	34
I can divide decimals	67	I can simplify (dividing)	35
I know why \times and \div by numbers between 0 & 1 is a special case	BOP	I can expand single brackets e.g. Expand $3(2x - 5y)$	93
I can add, subtract, multiply & divide negative numbers	68	I can expand expressions involving single brackets and simplify e.g. Expand and simplify $2 + 3(5x - 6)$	134
I can do long multiplication	BOP		
I can do long division	BOP	I can expand double brackets and simplify my answer	134
I can use a multiplication sum, to work out facts i.e. I'm given $32 \times 18 = 576$, I can do $57.6 \div 180$	92	I can factorise into a single bracket	94
		I can use the rules of indices	131
I know what BIDMAS stands for & can use it	75	I can measure & draw lines and angles accurately	46
I can round numbers to the nearest integer, 10, 100 etc.	31	I can measure & draw sides and angles in 2D shapes	46
I can round numbers to 1, 2, 3 decimal places.	32	I can compare sets of data using the mean and range	62
I can round numbers to 1, 2, 3 significant figures	90	I can compare the mean from a list with the mean from a frequency table	62
I know ab means $a \times b$	7		130

Unit B

YEAR 10 FOUNDATION: ASSESSING MY PROGRESS

Oct Half Term - Christmas

NOTE: *Italics* = skills we expect you to be able to do already, check you can do these, revise if you've forgotten them!

The numbers refer to the **GCSE Section** on www.mathswatchvle.com

I understand place value in integers and decimals	1	I substitute positive & negative numbers into expressions	95,68
I can order integers, decimals and fractions	84,85	I can use formulae from maths AND other subjects	BOP
I can use $<$, \leq , $>$, \geq , $=$, \neq symbols when ordering	5	I can solve equations	100
I can use negative numbers on the number line	23	I can solve equations using graphs	140
I can recognise equivalent fractions	25	I can solve inequalities	139
I can simplify fractions	26	I can show inequalities on a number line	138
I can compare fractions	70	I can read scales on a range of measuring instruments	4
I can switch between improper fractions and mixed numbers	BOP	I convert between seconds, minutes, hours and days	BOP
I can add and subtract fractions, including mixed numbers	71	I can convert from one metric unit to another	112
I can multiply a whole number by a fraction	73	I can estimate measurements in everyday life	BOP
I can multiply fractions, including mixed numbers	73	I can choose appropriate units for estimating	BOP
I can work out reciprocals of integers, fractions and decimals	76	Use information given to complete a two-way table	61
I can divide a whole number by a fraction	74	I can draw and interpret pictograms	16
I can divide fractions, including mixed numbers	74	I draw & interpret bar charts	15
I can remember the main fraction-to-decimal equivalents	84	I can draw and interpret composite bar charts	BOP
I can convert between other fractions and decimals	84	I draw & interpret comparative & dual bar charts	BOP
I can find a fraction of an amount	24,72	I can draw and interpret pie charts	128
I can write one number as a fraction of another	BOP	I can draw and interpret time series	153
I can find percentages of an amount	86,87	I can draw and interpret a vertical line chart	64
I can use decimals to calculate percentage or fraction of amounts	BOP	I can fill in tally charts	84
I can use multipliers to increase or decrease by a percentage	BOP	I can design tables and data collection sheets	BOP
I can do calculations with money	22	I draw stem-and-leaf diagrams	BOP
I can use estimation to check my answers to sums	91	I can draw, use and interpret scatter graphs	129
I can substitute into formulae	95	I can draw and use a line of best fit	129

Just after Christmas - Feb Half Term

NOTE: *Italics = skills we expect you to be able to do already, check you can do these, revise if you've forgotten them!*

The numbers refer to the **GCSE** section on www.mathswatchvle.com. Watch these clips to help understand your classwork.

<i>I can convert fractions, decimals and percentages</i>	84,85	I can use the SSS, ASA, SAS, RHS rules for congruence	166
<i>I can work out percentages of amounts</i>	86,87	I can name and recognise all 6 quadrilaterals	9
<i>I can express on quantity as a percentage of another</i>	88,89	I know all the properties of a square	9
<i>I can increase/decrease amounts by percentages</i>	108	I know all the properties of a rectangle	9
<i>I can solve simple interest problems</i>	111	I know all the properties of a parallelogram	9
I can calculate compound interest	164	I know all the properties of a kite	9
I can calculate percentage change	109	I know all the properties of a rhombus	9
I can plot and read co-ordinates	8	I know all the properties of a trapezium	9
I can find the co-ordinates of a midpoint of a line	133	I can reflect a shape & describe a reflection	48
<i>I can draw, label and scale axis</i>	BOP	I can rotate a shape & describe a rotation	49
I can plot and name straight lines parallel to the x and y axis e.g. $x = 5$ $y = -2$	BOP	I can translate shapes & describe translations using vectors	50
		I can enlarge a shape and describe an enlargement	148
I can recognise, name and plot $y = x$ and $y = -x$	BOP	<i>I can calculate mean, mode, median, range from a list</i>	62
I can complete x-y tables	96	I can identify outliers	BOP
I can plot straight line graphs from x-y tables	96	I know the advantages and disadvantages of each average	62
I can work out the intercept from a linear graph	159	I can compare sets of data using the mean and range	62
I can find the gradient from a straight line	97	I can solve problems using averages and range	BOP
I understand parallel lines have the same gradient	97	I can calculate the averages & range from frequency tables	130
I understand what m and c mean in $y = mx + c$	159	I can estimate the mean and range for grouped data	130
I can find the equation of a straight line from the graph	159	I can name the modal class	130
I can recognise which shapes are congruent	12	I can name the class interval containing the median	130

Unit D

YEAR 10 Foundation: ASSESSING MY PROGRESS

Feb Half Term - Easter

NOTE: *Italics* = skills we expect you to be able to do already, check you can do these, revise if you've forgotten them!

The numbers refer to the **GCSE Section** on www.mathswatchvle.com.

<i>I understand how ratios are written</i>	38	I can calculate the area of composite shapes	53
<i>I can simplify ratios</i>	38	I recognise the difference between an expression, formulae, identity & equation and use \neq and \equiv symbols	5
<i>I understand the link between ratios and fractions</i>	107		
<i>I can solve proportion recipe type questions</i>	39	I can write expressions or equations	137
<i>I can share quantities in given ratio</i>	106	I can calculate volume of a sphere	169
<i>I can use ratios to solve problems</i>	107	I can calculate volume of a pyramid	170
I can name these parts of a circle: centre, radius, chord, diameter, circumference, arc, sector, segment	116	I can calculate volume of a cone	171
		I can calculate volumes of shapes made up from these	BOP
I have memorised the formula for area of a circle		I can calculate the surface area of a sphere	169
I've memorised the formula for circumference of a circle		I can calculate the surface area of a pyramid	170
<i>I can calculate the circumference of a circle</i>	118	I can calculate the surface area of a cone	171
I can solve problems involving circumference of circles	118	I calculate the surface area of shapes made from these	BOP
I can work out percentage error intervals	155	<i>I understand likelihood and the probability scale</i>	14
<i>I can calculate the area of a circle</i>	117	<i>I can give probability as fraction, decimal or percentage</i>	59,85
I can calculate radius or diameter, given area (of circle)	117	<i>I can calculate the probability of an event</i>	59
I can calculate the area and perimeter of composite shapes which include parts of circles	BOP	I can calculate relative frequency	125
		I predict using experimental data (expected frequency)	125
I can express circumference or area in terms of π	117-8	I understand more trials = more reliable results	125
I can work out the perimeter of 2D shapes	52	I compare theoretical probability to experimental data	125

Unit E

YEAR 10 Foundation Tier: ASSESSING MY PROGRESS

Just after Easter - May Half Term

NOTE: *Italics* = skills we expect you to be able to do already, check you can do these, revise if you've forgotten them!

The numbers refer to the **GCSE Section** on www.vle.mathswatch.co.uk/vle

I know the first 15 square & first 6 cube numbers	81	I understand when to use the \neq and \equiv signs	5
I can work out both square roots of a number	81	I can simplify using the 3 rules of indices	82/131
I can find the cube root of a number.	81	I can use Pythagoras' Theorem to calculate the longest side in a right-angled triangle	150
I can use a calculator to find square roots & cube roots	81		
I recognise surd answers on my calculator	81	I can use Pythagoras' Theorem to calculate a shorter side in a right-angled triangle	150
I can evaluate powers without a calculator	82		
I understand zero powers	BOP	I can solve problems using Pythagoras' Theorem	150
I can evaluate negative powers	154	I can use trigonometry to calculate an unknown side in a right-angled triangle	168
I recognise powers of 2, 3, 4 and 5	82		
I can use the power buttons on my calculator	BOP	I can use trigonometry to calculate an unknown angle in a right-angled triangle	168
I can expand a single bracket e.g. Expand $3(2a - 5)$ $x(x + 2y)$	93		
Expand and simplify expressions like this: $4(2x - y) - 5(3x - 4y)$ $1 + 2(3m + 7)$	134	I know which triangles Pythagoras and trigonometry can be applied to	150
		I can solve problems using trigonometry	168
Expand & simplify double brackets e.g. $(x + 5)(x - 3)$ and $(2x + 5)(3x + 4)$ and $(4x + 5)^2$	134	I can systematically list possible outcomes of an event	58
		I calculate probabilities as fractions/decimals/percent	59
<i>I can factorise into single brackets</i>	94	I can draw a sample space diagram / possibility space and use to calculate probability	126
I can factorise quadratic expressions	157		
I can factorise using difference of two squares	158	I understand "mutually exclusive"	60
I can solve quadratic equations using factorising	157	I understand "exhaustive outcomes"	BOP
I can read approximate solutions to quadratics from a graph	140 BOP	I can complete two-way tables and use them to calculate probabilities	61