



MATHEMATICS

I Can Statements

Year 7 I can Statements 2020.

Unit		Statement
Number	1A	I can work with negative numbers
	1B	I can multiply and divide numbers, using mental and standard written methods
Algebra	2A	I can write and simplify algebraic expressions
	2B	I can substitute positive and negative numbers into formulae
Angles	3A	I can measure and draw angles, and use some basic angle facts
	3B	I can calculate angles in increasingly complex shapes
Decimals	4A	I can order and round decimals
	4B	I can use all four operations with decimals
Fractions & Percentages	5A	I can simplify and operate with fractions
	5B	I can find a simple percentage of an amount
Perimeter, Area & Volume	6A	I can find the perimeter and area of increasingly complex shapes
	6B	I can convert between different units of metric measure
Data	7A	I can work out averages and use them to compare sets of data
	7B	I understand how data is presented and can use tables and charts
Sequences & Graphs	8A	I can use mathematical language to describe and generate sequences
	8B	I can plot graphs of functions
Ratio	9A	I can divide a quantity into parts in a given ratio
	9B	I can solve worded number problems
Transformations	10A	I can describe the line and rotational symmetry of 2D shapes
	10B	I can reflect and rotate shapes on a co-ordinate grid



Year 8 I can Statements 2020

Unit		Statement
Number	1A	I can find and use powers and roots.
	1B	I understand factors and multiples and can find prime factors.
Algebra	2A	I can simplify algebraic expressions involving brackets.
	2B	I can construct and solve two step equations.
Angles	3A	I can use some more complex angle facts to find missing angles.
	3B	I understand angles inside and outside shapes.
Decimals	4A	I can multiply decimals.
	4B	I can solve problems, such as ratios, using operations on decimals.
Proportion	5A	I can find fractions and percentages of amounts
	5B	I can use percentages to change numbers.
Perimeter, Area & Volume	6A	I can calculate the surface area and volume of a cuboid and other prisms.
	6B	I know the names of all the parts of 2D and 3D shapes.
Data	7A	I can make and use charts and graphs to interpret and compare data.
	7B	I can use scatter graphs and discuss correlation.
Sequences & Graphs	8A	I can use rules to generate sequences.
	8B	I can use algebra to describe and draw straight-line graphs
Probability	9A	I can use numbers to describe probabilities, including the probability of an event not happening
	9B	I can use data to work out experimental probabilities and calculate expected outcomes.
Understanding Graphs	10A	I can draw and interpret distance-time graphs
	10B	I can draw and use real-life graphs



Year 9 I can Statements 2020

Unit		Statement
Number	1A	I can calculate with combinations of powers and roots.
	1B	I understand how to use powers of ten, as in standard form
Algebra	2A	I can write and use formulas, including changing the subject.
	2B	I can simplify expressions using two brackets.
Constructions	3A	I can use scales in maps and diagrams.
	3B	I can bisect a line segment and an angle.
Equations	4A	I can construct and solve increasingly more complex equations
	4B	I can represent inequalities on a number line.
Proportion	5A	I can solve problems using ratio.
	5B	I can solve problems using proportion
Area & Units	6A	I can find the area and circumference of a circle, or shapes involving circles
	6B	I can calculate using estimates, such as upper and lower bounds.
Data	7A	I understand how to plan a survey, including collecting data
	7B	I can use tables and charts to find averages.
Graphs	8A	I understand the important parts of a straight line, using $y = mx + c$ to describe them
	8B	I can use a table of values to draw more complex graphs.
Probability	9A	I can work out probabilities when two events occur, using diagrams as necessary
	9B	I can compare experimental and theoretical probabilities.
Similarity & Congruence	10A	I can solve problems involving similar and congruent shapes
	10B	I can enlarge shapes using a scale factor.



Year 10/11 Foundation GCSE 2020

FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
N7.3	CALCULATIONS	10F	1	1a	1a I can add subtract multiply and divide integers, including negatives
N3.3	DECIMALS	10F	1	1b	1b I can order, add subtract multiply and divide decimals
N2.3	ROUNDING	10F	1	1c	1c I can round a number and use it to estimate an answer
N5.4	POWERS	10F	1	1d	1d I can use index numbers and their laws
N8.2	FACTORS	10F	1	1e	1e I can find and use factors and multiples
N8.3	FACTORS	10F	1	1f	1f I can find and use prime numbers
A2.4	SIMPLIFYING ALGEBRA	10F	2	2a	2a I can simplify an algebraic expression
A2.5	SIMPLIFYING ALGEBRA	10F	2	2b	2b I can expand and simplify brackets in algebra
A2.6	SIMPLIFYING ALGEBRA	10F	2	2c	2c I can factorise an algebraic expression
A1.5	MANIPULATING ALGEBRA	10F	2	2d	2d I can create, substitute into and evaluate an algebraic formula
G1.5	ANGLES	10F	3	3a	3a I can identify draw and measure angles
G1.6	ANGLES	10F	3	3b	3b I can find missing angles using angle facts, including parallel lines
G1.7	ANGLES	10F	3	3c	3c I can use angle facts in quadrilaterals and triangles
G1.8	ANGLES	10F	4	4	4 I can find and use angles in polygons
R1.7	RATIO	10F	5	5a	5a I can write and simplify ratios



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
R1.8	RATIO	10F	5	5b	5b I can share in a ratio
R1.9	RATIO	10F	5	5c	5c I can use solve ratio problems
R1.6	RATIO	10F	6	6a	6a I can use proportion in recipe and 'best buy' questions
R2.3	CONVERSIONS	10F	6	6b	6b I can convert between measures and currencies
D2.6	TABLES & CHARTS	10F	7	7a	7a I can work with bias and sampling
D1.3	AVERAGES	10F	7	7b	7b I can find and compare averages
D1.4	AVERAGES	10F	7	7c	7c I can find averages from diagrams
N9.2	FRACTIONS	10F	8	8a	8a I can find equivalent fractions and convert to and from mixed numbers
N9.3	FRACTIONS	10F	8	8b	8b I can add and subtract fractions
N9.4	FRACTIONS	10F	8	8c	8c I can multiply and divide fractions
N9.5	FRACTIONS	10F	8	8d	8d I can find a fraction of a quantity
N9.6	FRACTIONS	10F	8	8e	8e I can convert between and order fractions decimals and percentages
N1.4	PERCENTAGES	10F	8	8f	8f I can find percentages and find a number as a percentage of another number
N1.5	PERCENTAGES	10F	8	8g	8g I can solve problems using simple and compound interest, and calculate 'reverse percentages'
R2.2	CONVERSIONS	10F	9	9a	9a I can convert between different units of metric measure



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
G4.4	PAV	10F	9	9b	9b I can find the perimeter and area of triangles, rectangles and trapeziums
G4.5	PAV	10F	9	9c	9c I can find areas of compound shapes
G4.6	PAV	10F	9	9d	9d I can find the surface area of a 3D shape
G4.7	PAV	10F	9	9e	9e I can find the volume of prisms
A1.6	MANIPULATING ALGEBRA	10F	10	10a	10a I can set up and solve linear equations
A3.2	INEQUALITIES	10F	10	10b	10b I can solve and show inequalities
A5.3	SEQUENCES	10F	11	11a	11a I can continue a sequence of numbers or patterns
A5.4	SEQUENCES	10F	11	11b	11b I can find and use the nth term rule of an arithmetic sequence
A6.6	GRAPHS	10F	12	12a	12a I can draw straight line graphs by completing a table of values
A6.7	GRAPHS	10F	12	12b	12b I can find and use the equation of a straight line ($y = mx + c$)
D2.7	TABLES & CHARTS	10F	12	12c	12c I can draw and interpret real life graphs
N4.1	TIME	10F	13	13a	13a I can calculate using time (24hr clock) and timetables
D1.5	AVERAGES	10F	13	13b	13b I can construct and find averages in a frequency table
D2.8	TABLES & CHARTS	10F	13	13c	13c I can draw and interpret a pie chart
D2.9	TABLES & CHARTS	10F	13	13d	13d I can draw and use scattergraphs
D3.5	PROBABILITY	10F	14	14a	14a I can calculate probability



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
D3.6	PROBABILITY	10F	14	14b	14b I can use probabilities to work out expected outcomes
D3.7	PROBABILITY	10F	14	14c	14c I can draw and use sample space diagrams
D3.8	PROBABILITY	10F	14	14d	14d I can draw and use Venn diagrams and tree diagrams
G8.1	PYTHAGORAS & TRIG	10F	15	15a	15a I can use Pythagoras' Theorem
G8.2	PYTHAGORAS & TRIG	10F	15	15b	15b I can use trigonometry to find lengths and angles
N5.5	POWERS	10F	16	16	16 I can use standard form numbers
G5.3	TRANSFORMATIONS	10F	17	17a	17a I can transform a shape on a co-ordinate grid using rotation, reflection and translation
G5.4	TRANSFORMATIONS	10F	17	17b	17b I can describe a transformation that has taken place on a co-ordinate grid
G5.5	TRANSFORMATIONS	10F	17	17c	17c I can enlarge a shape using a scale factor and a centre of enlargement
A4.1	SDT	10F	18	18a	18a I can work out speed distance & time, including using graphs
A4.2	SDT	10F	18	18b	18b I can solve problems involving speed and density
G4.8	PAV	10F	19	19a	19a I can find the circumference and area of circles and parts of circles
G4.9	PAV	10F	19	19b	19b I can find the surface area and volume of cylinders
G3.2	SHAPES	10F	20	20	20 I can draw accurate plans and elevations of 3D shapes



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
G6.2	CONSTRUCTIONS	10F	21	21a	21a I can construct perpendiculars, bisectors and triangles from given information
G7.1	BEARINGS	10F	21	21b	21b I can use map scales and bearings
G6.3	CONSTRUCTIONS	10F	21	21c	21c I can construct diagrams to solve loci problems
G2.3	SIMILARITY & CONGRUENCE	10F	22	22a	22a I can understand and use similarity and congruence in shape problems
G5.6	TRANSFORMATIONS	10F	22	22b	22b I can use column vectors to transform a shape
G5.7	TRANSFORMATIONS	10F	22	22c	22c I can use two or more column vectors to solve problems
A1.7	MANIPULATING ALGEBRA	10F	23	23a	23a I can multiply together two algebraic expressions with brackets to create a quadratic expression
A2.7	SIMPLIFYING ALGEBRA	10F	23	23b	23b I can factorise a quadratic expression and solve a quadratic equation
A6.8	GRAPHS	10F	23	23c	23c I can draw a quadratic and other graphs using a table of values
A6.9	GRAPHS	10F	23	23d	23d I can identify roots, intercepts and turning points on a quadratic graph
A1.9	MANIPULATING ALGEBRA	10F	24	24a	24a I can write and solve simultaneous equations algebraically
A1.8	MANIPULATING ALGEBRA	10F	24	24b	24b I can change the subject of a formula



Year 10/11 Higher GCSE 2020

FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
N2.4	ROUNDING	10H	1	1a	1a I can round to decimal places and significant figures
N5.6	POWERS	10H	1	1b	1b I can use index numbers and their laws
N8.4	FACTORS	10H	1	1c	1c I can work with factors and multiples
N5.7	POWERS	10H	1	1d	1d I can use standard form numbers
N5.8	POWERS	10H	1	1e	1e I can work with surds
A1.10	MANIPULATING ALGEBRA	10H	2	2a	2a I can set up and solve linear equations
A1.11	MANIPULATING ALGEBRA	10H	2	2b	2b I can change the subject of a formula
A1.12	MANIPULATING ALGEBRA	10H	2	2c	2c I can use iteration
G1.9	ANGLES	10H	3	3a	3a I can find and use angles in polygons
G8.3	PYTHAGORAS & TRIG	10H	3	3b	3b I can use Pythagoras in 2D problems
G8.4	PYTHAGORAS & TRIG	10H	3	3c	3c I can use trigonometry to find sides and angles in 2D problems
R1.10	RATIO	10H	4	4a	4a I can solve ratio problems
R2.4	CONVERSIONS	10H	4	4b	4b I can convert between measures and currencies using ratio
D1.6	AVERAGES	10H	5	5a	5a I can find and compare averages
D1.7	AVERAGES	10H	5	5b	5b I can use frequency tables
D2.11	TABLES & CHARTS	10H	5	5c	5c I can draw and use pie charts, bar charts



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
					and frequency polygons
D2.12	TABLES & CHARTS	10H	5	5d	5d I can draw and use scattergraphs
N9.7	FRACTIONS	10H	6	6a	6a I can calculate using fractions, reciprocals and recurring decimals
N1.6	PERCENTAGES	10H	6	6b	6b I can calculate with percentages, using a multiplier when necessary
N1.7	PERCENTAGES	10H	6	6c	6c I can solve problems using simple and compound interest
N1.8	PERCENTAGES	10H	6	6d	6d I can calculate 'reverse percentages'
G4.10	PAV	10H	7	7a	7a I can calculate areas of triangles, trapezia and compound shapes with a variety of metric measures
G4.11	PAV	10H	7	7b	7b I can find the circumference and area of circles and parts of circles
G4.12	PAV	10H	8	8a	8a I can calculate the surface area and volume of prisms, including cylinders
G4.13	PAV	10H	8	8b	8b I can calculate surface area and volume of further 3D shapes
A5.5	SEQUENCES	10H	9	9a	9a I can find and use the nth term rule of an arithmetic sequence
A5.6	SEQUENCES	10H	9	9b	9b I can find and use the nth term of a quadratic sequence



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
A6.10	GRAPHS	10H	10	10a	10a I can find and use the equation of a straight line ($y = mx + c$)
A6.11	GRAPHS	10H	10	10b	10b I can find the equation of parallel and perpendicular lines
A3.3	INEQUALITIES	10H	11	11a	11a I can solve and show inequalities
A3.4	INEQUALITIES	10H	11	11b	11b I can show inequalities as regions on a graph
D2.10	TABLES & CHARTS	10H	12	12	12 I can work with bias and sampling
D2.13	TABLES & CHARTS	10H	13	13a	13a I can draw and use cumulative frequency diagrams and box plots
D2.14	TABLES & CHARTS	10H	13	13b	13b I can draw and use a histogram
A4.4	SDT	10H	14	14a	14a I can draw and interpret distance/velocity-time graphs
A4.5	SDT	10H	14	14b	14b I can work out speed, distance and time
D3.9	PROBABILITY	10H	15	15a	15a I can use probabilities to work out expected outcomes
D3.10	PROBABILITY	10H	15	15b	15b I can use tree diagrams to calculate probability
D3.11	PROBABILITY	10H	15	15c	15c I can calculate probability of conditional events
D3.12	PROBABILITY	10H	15	15d	15d I can draw and use Venn diagrams
N2.5	ROUNDING	10H	16	16a	16a I can find error intervals and bounds



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
					and use them in calculations
A6.12	GRAPHS	10H	17	17a	17a I can draw a quadratic graph using a table of values
A2.8	SIMPLIFYING ALGEBRA	10H	17	17b	17b I can factorise a quadratic expression and solve a quadratic equation
A2.9	SIMPLIFYING ALGEBRA	10H	17	17c	17c I can factorise and solve by completing the square
A6.13	GRAPHS	10H	17	17d	17d I can identify roots, intercepts and turning points on a quadratic graph and sketch it
A6.14	GRAPHS	10H	18	18a	18a I can solve simultaneous equations graphically
A1.13	MANIPULATING ALGEBRA	10H	18	18b	18b I can write and solve simultaneous equations algebraically
A1.14	MANIPULATING ALGEBRA	10H	18	18c	18c I can solve a linear/quadratic simultaneous equation
G5.8	TRANSFORMATIONS	10H	19	19a	19a I can transform a shape on a co-ordinate grid using rotation, reflection and translation
G5.9	TRANSFORMATIONS	10H	19	19b	19b I can transform a shape on a co-ordinate grid using combined transformations
G5.10	TRANSFORMATIONS	10H	19	19c	19c I can describe a transformation that has taken place on a co-ordinate grid



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
G5.11	TRANSFORMATIONS	10H	19	19d	19d I can enlarge a shape using a scale factor and a centre of enlargement
R1.11	RATIO	10H	20	20a	20a I can calculate unknown quantities using direct and inverse proportion
R1.12	RATIO	10H	20	20b	20b I can solve algebraic, graphical and worded proportion problems
A4.3	SDT	10H	20	20c	20c I can solve problems about density
G3.3	SHAPES	10H	21	21a	21a I can draw accurate plans and elevations of 3D shapes
G7.2	BEARINGS	10H	21	21b	21b I can use map scales and bearings
G6.4	CONSTRUCTIONS	10H	21	21c	21c I can construct diagrams to solve loci problems
A6.15	GRAPHS	10H	22	22a	22a I can recognise and draw other graphs, such as reciprocal, cubic, exponential and circles
A1.16	MANIPULATING ALGEBRA	10H	23	23a	23a I can solve problems involving algebraic fractions
A2.10	SIMPLIFYING ALGEBRA	10H	23	23c	23c I can multiply and simplify three algebraic expressions with brackets
A1.17	MANIPULATING ALGEBRA	10H	23	23d	23d I can work with functions
A1.18	MANIPULATING ALGEBRA	10H	23	23d	23d I can use algebra to prove statements are true or false



FLOW	TOPIC	YEAR	UNIT	I CAN	STATEMENT
G1.10	ANGLES	10H	24	24a	24a I can use circle theorems
G1.11	ANGLES	10H	24	24b	24b I can solve problems using circle theorems
A6.17	GRAPHS	10H	25	25a	25a I can recognise and draw the graphs of trigonometric functions
A6.18	GRAPHS	10H	26	26a	26a I can transform linear, quadratic and cubic graphs
A4.6	SDT	10H	26	26b	26b I can estimate areas and gradients of curves
G2.4	SIMILARITY & CONGRUENCE	10H	27	27a	27a I can use similarity to find missing lengths, areas and volumes
G8.5	PYTHAGORAS & TRIG	10H	28	28a	28a I can use trigonometry and Pythagoras in 3D
G8.6	PYTHAGORAS & TRIG	10H	28	28b	28b I can use the sine and cosine rules
G8.7	PYTHAGORAS & TRIG	10H	28	28c	28c I can use the formula for the area of any triangle
G5.12	TRANSFORMATIONS	10H	29	29a	29a I can solve problems using vector geometry, including using ratio
G2.5	SIMILARITY & CONGRUENCE	10H	29	29b	29b I can use angle facts, similarity and congruence in geometric proofs