OXFORD
INTERNATIONAL
AQA EXAMINATIONS

STEP UP TO OXFORDAQA INTERNATIONAL GCSE MATHEMATICS

Mapping of MyMaths for Key Stage 3 from Oxford University Press to OxfordAQA International GCSE Mathematics (9260)

THE BRIDGE TO INTERNATIONAL GCSE MATHEMATICS (9260)

In this document, we show how MyMaths for Key Stage 3 from Oxford University Press prepares your Lower Secondary age 11–14 students of all abilities for the step up to OxfordAQA International GCSE Mathematics (9260).

The following mapping grid shows which areas of MyMaths for Key Stage 3 provide the prior knowledge and skills for each topic in the OxfordAQA International GCSE Mathematics specification. Any content that does not require prior learning before students start their International GCSE study is clearly indicated.

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
NUMBER	STRUCTURE AND CALCULATION	N1	› Order positive and negative integers, decimals and fractions › Use the symbols =, ≠, <, >, ≤, ≥ Notes: Including use of a number line.	**1 Whole numbers and decimals** 1b Ordering whole numbers 1c Place value and decimals 1f Temperature	**1 Whole numbers and decimals** 1a Negative numbers 1e Ordering decimal numbers **4 Fractions, decimals and percentages** 4b Fractions and decimals 4g Fractions, decimals and percentages	**1 Whole numbers and decimals** 1b Rounding 1f Ordering decimals **4 Fractions, decimals and percentages** 4e Fractions and decimals **10 Equations** 10a Equality and inequality
		N2	› Apply the four operations, including formal written methods, to integers, decimals and simple fractions (proper and improper), and mixed numbers – all both positive and negative › Understand and use place value (e.g. when working with very large or very small numbers, and when calculating with decimals) Notes: Including questions set in context.	**1 Whole numbers and decimals** 1a Place value 1b Ordering whole numbers 1c Place value and decimals 1d Decimals and money 1e Adding decimals 1f Temperature 1h Order of operations **4 Fractions, decimals and percentages** 4d Fractions of an amount 1 4e Fractions of an amount 2 **7 Adding and subtracting** **14 Multiplying and dividing** **15 Ratio and proportion** 15c Solving arithmetic problems	**4 Fractions, decimals and percentages** 4a Adding and subtracting fractions 4d Fraction of a quantity **7 Mental calculations** 7a Order of operations 7b Mental addition and subtraction 7c Mental multiplication and division 7d Addition and subtraction problems 7e Multiplication and division problems **11 Written and calculator methods**	**1 Whole numbers and decimals** 1a Powers of 10 1c Order of operations 1f Ordering decimals **4 Fractions, decimals and percentages** 4a Adding and subtracting fractions 1 4b Adding and subtracting fractions 2 4d Multiplying and dividing fractions **7 Calculations** 7a Addition and subtraction 7b Mental multiplication and division 7c Written multiplication 7d Written division 7f Using a calculator
		N3	› Recognise and use relationships between operations, including inverse operations (e.g. cancellation to simplify calculations and expressions) › Use conventional notation for priority of operations, including brackets, powers, roots and reciprocals	**1 Whole numbers and decimals** 1h Order of operations **10 Equations** 10a Operations 10b Inverse operations 10e Equations 2	**3 Expressions and formulae** 3e Simplifying harder expressions **7 Mental calc** 7a Order of operations **10 Equations** 10a One-step equations 10c Two-step equations	**1 Whole numbers and decimals** 1c Order of operations **3 Expressions and formulae** 3a Simplifying expressions 3c Formulae **7 Calculations** 7b Mental multiplication and division **10 Equations** 10b Solving equations

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
NUMBER	STRUCTURE AND CALCULATION	N4	Use the concepts and vocabulary of even, odd and prime numbers, factors (divisors), multiples, common factors, common multiples, highest common factor, lowest common multiple, prime factorisation, including using product notation Notes: Prime factor decomposition including product of prime factor written in index form.	**11 Factors and multiples** 11a Factors 11b Multiples 11c Tests of divisibility	**1 Whole numbers and decimals** 1b Multiples and factors 1c Common factors 1d Prime numbers	**1 Whole numbers and decimals** 1d Multiples, factors, divisibility and prime numbers 1e Prime factors, the HCF and the LCM
		N5	Use positive integer powers and associated real roots (square, cube and higher), recognise powers of 2, 3, 4, 5	**11 Factors and multiples** 11d Square numbers	**1 Whole numbers and decimals** 1g Square numbers 1h Square numbers and square roots	**11 Powers and roots** 11a Square numbers and square roots 11b Using square numbers and square roots 11c Indices
		N6	Index laws for multiplication and division using integer powers			**11 Powers and roots** 11c Indices
			Extension content: Including fractional powers	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		N7	Calculate exactly with fractions	**4 Fractions, decimals and percentages** 4d Fractions of an amount 1 4e Fractions of an amount 2	**4 Fractions, decimals and percentages** 4c Adding and subtracting fractions 4d Fraction of a quantity	**4 Fractions, decimals and percentages** 4a Adding and subtracting fractions 1 4b Adding and subtracting fractions 2 4c Fraction of a quantity 4d Multiplying and dividing fractions
			Extension content: Calculate exactly with surds Manipulation and simplification of surds including rationalising a denominator	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		N8	Calculate with and interpret standard form $A \times 10^n$, where $1 \leq A < 10$ and n is an integer Notes: Interpret calculator displays.			**11 Powers and roots** 11d Standard form
		N9	Use language and notation of sets including n(A), A′, $A \cup B$, $A \cap B$, ξ understand and use Venn diagrams to solve problems	**16 Probability** 16d Sorting with Venn diagrams	**16 Probability** 16e Venn diagrams	**16 Probability** 16g Venn diagrams
		N10	Use calculators effectively and efficiently including trigonometrical functions	**14 Multiplying and dividing** 14h Calculator skills	**1 Whole numbers and decimals** 1h Square numbers and square roots **4 Fractions, decimals and percentages** 4f Percentages **11 Written and calculator methods** 11e Calculator skills 11f Interpreting the display **15 Ratio and proportion** 15g Calculations involving money	**1 Whole numbers and decimals** 1c Order of operations **4 Fractions, decimals and percentages** 4e Fractions and decimals 4f Percentage of a quantity **7 Calculations** 7f Using a calculator **11 Powers and roots** 11a Square numbers and square roots 11b Using square numbers and square roots

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
NUMBER	STRUCTURE AND CALCULATION	N11	› Round numbers and measures to an appropriate degree of accuracy (eg to a specified number of decimal places or significant figures) › Apply and interpret limits of accuracy › Use estimation to work out approximate answers to calculations	**1 Whole numbers and decimals** 1g Rounding and estimating **14 Multiplying and dividing** 14d Written methods of multiplication 14h Calculator skills	**1 Whole numbers and decimals** 1f Rounding **7 Mental calculations** 7b Mental addition and subtraction 7d Addition and subtraction 7e Multiplication and division **11 Written and calculator methods** 11b Written multiplication 11e Calculator skills 11f Interpreting the display	**1 Whole numbers and decimals** 1b Rounding **2 Measures, perimeter and area** 2f Circumference of a circle **4 Fractions, decimals and percentages** 4e Fractions and decimals **7 Mental calculations** 7b Mental multiplication and division 7c Written multiplication 7e Estimating and approximating
			Extension content: › Calculate and use upper and lower bounds	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	FRACTIONS, DECIMAL AND PERCENTAGES	N12	› Understand and use equivalent fractions, understand and use percentages, convert between fractions, terminating decimals and percentages	**4 Fractions, decimals and percentages** 4b Equivalent fractions 4f Percentages 4g Finding percentages 4h Fractions, decimals and percentages	**4 Fractions, decimals and percentages** 4a Fractions 4b Fractions and decimals 4e Finding 10 percent 4f Percentages 4g Fractions, decimals and percentages **15 Ratio and proportion** 15c Proportion 15f Comparing proportions	**4 Fractions, decimals and percentages** 4b Adding and subtracting fractions 4e Fractions and decimals 4f Percentage of a quantity 4g Percentage problems 4h Financial maths 1: percentage change **15 Ratio and proportion** 15d Percentages and proportion
			Extension content: › Convert between fractions and recurring decimals		**11 Written and calculator methods** 11f Interpreting the display	**4 Fractions, decimals and percentages** 4e Fractions and decimals
		N13	› Interpret fractions, decimals and percentages as operators	**4 Fractions, decimals and percentages** 4d Fractions of an amount 1 4e Fraction of an amount 2 4f Percentages 4g Finding percentages 4h Fractions, decimals and percentages	**4 Fractions, decimals and percentages** 4d Fraction of a quantity 4e Finding 10 percent 4f Percentages **15 Ratio and proportion** 15f Comparing proportions	**4 Fractions, decimals and percentages** 4c Fraction of a quantity 4f Percentage of a quantity 4g Percentage problems 4h Financial maths 1: percentage change

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
NUMBER	FRACTIONS, DECIMAL AND PERCENTAGES	N14	Express one quantity as a fraction/percentage of another, where the fraction is less than 1 or greater than 1 or the percentage is less than 100 or greater than 100	**4 Fractions, decimals and percentages** 4a Writing fractions 4d Fractions of an amount 1 4e Fraction of an amount 2 4f Percentages 4g Finding percentages	**4 Fractions, decimals and percentages** 4a Fractions 4b Fractions and decimals 4d Fraction of a quantity 4e Finding 10 percent 4f Percentages 4g Fractions, decimals and percentages **15 Ratio and proportion** 15c Proportion	**4 Fractions, decimals and percentages** 4c Fraction of a quantity 4f Percentage of a quantity 4g Percentage problems **15 Ratio and proportion** 15d Percentages and proportion
		N15	Solve problems involving percentage change, including increase/decrease, simple interest and compound interest			**4 Fractions, decimals and percentages** 4g Percentage problems 4h Financial maths 1: percentage change
			Extension content: Reverse percentage problems Knowledge and use of the compound interest formula Value of investment = P(1 + R/100)n where P is the amount invested, r is the percentage rate of interest and n is the number of years of compound interest	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	RATIO AND PROPORTION	N16	Use ratio notation, including reduction to simplest form and links to fraction notation	**15 Ratio and proportion** 15a Ratio and proportion 15b Ratio and proportion problems	**15 Ratio and proportion** 15a Simplifying ratios 15b Dividing into ratios 15e Ratio and proportion problems	**15 Ratio and proportion** 15a Ratio 15b Dividing in a given ratio 15c Ratio and proportion
		N17	Divide a quantity in a given ratio	**15 Ratio and proportion** 15a Ratio and proportion 15b Ratio and proportion problems	**15 Ratio and proportion** 15a Simplifying ratios 15b Dividing into ratios 15e Ratio and proportion problems	**15 Ratio and proportion** 15a Ratio 15b Dividing in a given ratio 15c Ratio and proportion
		N18	Apply ratio to solve problems	**15 Ratio and proportion** 15a Ratio and proportion 15b Ratio and proportion problems	**15 Ratio and proportion** 15a Simplifying ratios 15b Dividing into ratios 15e Ratio and proportion problems	**15 Ratio and proportion** 15a Ratio 15b Dividing in a given ratio 15c Ratio and proportion
		N19	Use common measures of rate, including calculating rates of pay and best-buy problems		**15 Ratio and proportion** 15f Comparing proportions 15g Calculations involving money	
		N20	Solve problems involving direct and inverse proportion including repeated proportional change		**15 Ratio and proportion** 15d Proportion problems 15e Ratio and proportion problems 15f Comparing proportions 15g Calculations involving money	**15 Ratio and proportion** 15c Ratio and proportion 15d Percentages and proportion 15e Proportional reasoning
			Extension content: Exponential growth and decay	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
ALGEBRA	NOTATION AND MANIPULATION	A1	Use letters to express generalised numbers and express basic arithmetic processes algebraically	**3 Expressions and formulae**	**3 Expressions and formulae**	**3 Expressions and formulae**
		A2	Substitute numbers for words and letters in formulae and transform simple formulae	**3 Expressions and formulae** 3e Substitution 3f Creating a formula	**3 Expressions and formulae** 3b Substitution 3f Formulae 3g Writing a formula	**3 Expressions and formulae** 3b Using brackets 3c Formulae **6 Graphs** 6b Tables of values
			Extension content: Transform complex formulae including when the subject appears twice			**3 Expressions and formulae** 3c Formulae
		A3	Understand and use the concepts of expressions, equations, formulae, identities, inequalities, terms and factors	**3 Expressions and formulae** **10 Equations** 10c Using letters 3 10d Equations 1 10e Equations 2	**3 Expressions and formulae** **10 Equations**	**3 Expressions and formulae** **10 Equations**
		A4	Collecting like terms and expanding brackets up to expanding products of two linear expressions	**3 Expressions and formulae** 3c Adding with symbols 3d Simplifying expressions	**3 Expressions and formulae** 3c Simplifying expressions 3d Expanding brackets 3e Simplifying harder expressions	**3 Expressions and formulae** 3a Simplifying expressions 3b Using brackets
			Extension content: Expanding products of two or three binomials	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A5	Taking out common factors, factorising quadratic expressions of the form x2 + bx + c; including the difference of two squares	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: Factorising quadratic expressions of the form ax2 + bx + c; including the difference of two squares	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A6	Index laws for multiplication and division using integer powers			**11 Powers and roots** 11c Indices
			Extension content: Including fractional powers	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
ALGEBRA	NOTATION AND MANIPULATION	A7	› Manipulation of rational expressions: use of + – × ÷ for algebraic fractions with denominators being numeric	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Linear or quadratic algebraic expressions	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A8	› Argue mathematically to show algebraic expressions are equivalent, and use algebra to support and construct arguments	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › To include proofs	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	FUNCTIONS, GRAPHS AND CALCULUS	A9	› Interpret simple expressions as functions with inputs and outputs	**10 Equations** 10a Operations 10b Inverse operations 10c Using letters 3	**10 Equations** 10a One-step equations 10c Two-step equations	**6 Graphs** 6b Tables of values 6e Straight-line rules
			Extension content: › Definition of a function, use function notation of the form f (x) = ..., understand and use the terms domain and range, understand and find the composite function fg and the inverse function f –1	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A10	› Work with coordinates in all four quadrants	**6 Graphs** 6a Coordinates 6b Coordinates with negative numbers	**6 Graphs** 6a Coordinates in four quadrants	
		A11	› Plot graphs of equations that correspond to straight line graphs in the coordinate plane › Use the form y = mx + c › Identify and interpret gradients and intercepts of linear functions graphically and algebraically › Understand the gradients of parallel lines		**6 Graphs** 6b Coordinates and straight lines 6c Drawing graphs 6d Horizontal and vertical graphs	**6 Graphs** 6a Horizontal and vertical lines 6b Tables of values 6c Drawing straight-line graphs 6d Problem solving using straight-line graphs 6e Straight-line rules
			Extension content: › Find the equation of the line through two given points, or through one point with a given gradient › Understand and use the gradients of perpendicular lines		**6 Graphs** 6b Coordinates and straight lines 6c Drawing graphs 6d Horizontal and vertical graphs	**6 Graphs** 6a Horizontal and vertical lines 6e Straight-line rules

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
ALGEBRA	FUNCTIONS, GRAPHS AND CALCULUS	A12	› Recognise, sketch and interpret graphs of linear functions and quadratic functions including simple cubic functions and the reciprocal function $y = 1/x$ with $x \neq 0$		**6 Graphs** 6b Coordinates and straight lines 6c Drawing graphs 6d Horizontal and vertical graphs	**6 Graphs** 6a Horizontal and vertical lines 6c Drawing straight-line graphs 6d Problem solving using straight-line graphs 6e Straight-line rules
			Extension content: › Including exponential functions $y = k\,x$ for positive values of k, and the trigonometric functions (with arguments in degrees) › $y = \sin x$, $y = \cos x$ and $y = \tan x$ for angles of any size	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A13	**Extension content:** › Understand and use the gradient function dy/dx › Differentiation of kx^n where n is a positive integer or 0, and the sum of such functions Notes: Including expressions which need to be simplified first.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A14	**Extension content:** › Know that the gradient of a function is the gradient of the tangent at that point › Work out the equation of a tangent at any point on a curve	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A15	**Extension content:** › Use of differentiation to find stationary points on a curve: maxima, minima and points of inflection › Sketch a curve with known stationary points	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A16	› Identify and interpret roots, intercepts and turning points of quadratic functions graphically › Deduce roots algebraically	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Deduce turning points by completing the square	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A17	› Plot and interpret graphs, and graphs of nonstandard functions in real contexts, to find approximate solutions to problems such as simple kinematic problems involving distance, speed and acceleration › Interpret the gradient of a straight-line graph as a rate of change	**6 Graphs** 6c Reading graphs 6d Line graphs 1 6e Line graphs 2	**6 Graphs** 6e Real-life graphs 6f Conversion graphs 6g Graphs and formulae	**6 Graphs** 6f Interpreting real-life graphs 6g Time series graphs
			Extension content: › Calculate or estimate gradients of graphs and areas under graphs (including quadratic and other non-linear graphs), and interpret results in cases such as distance-time graphs and velocity-time graphs	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
ALGEBRA	FUNCTIONS, GRAPHS AND CALCULUS	A18	**Extension content:** › Express direct and inverse variation in algebraic terms and use this form of expression to find unknown quantities	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	SOLVING EQUATIONS AND INEQUALITIES	A19	› Solve linear equations in one unknown algebraically › Find approximate solutions using a graph Notes: Including use of brackets and those with the unknown on both sides of the equation.	**10 Equations** 10c Using letters 3 10d Equations 1 10e Equations 2	**10 Equations**	**10 Equations** 10b Solving equations 10c Balancing equations 1 10d Balancing equations 2 10e Writing equations
		A20	› Solve quadratic equations algebraically by factorising › Find approximate solutions using a graph	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Including completing the square and by using the quadratic formula	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A21	› Solve two linear simultaneous equations in two variables algebraically › Find approximate solutions using a graph		**6 Graphs** 6b Coordinates and straight lines 6d Horizontal and vertical graphs	**6 Graphs** 6a Horizontal and vertical lines 6d Problem solving using straight-line graphs
			Extension content: › Including one linear and one quadratic	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A22	› Translate simple situations or procedures into algebraic expressions or formulae › Derive an equation (or two simultaneous equations), solve the equation(s) and interpret the solution Notes: Including the solution of geometrical problems and problems set in context.	**3 Expressions and formulae** 3f Creating a formula **10 Equations** 10c Using letters 3 10d Equations 1 10e Equations 2	**3 Expressions and formulae** 3g Writing a formula **6 Graphs** 6d Horizontal and vertical graphs **10 Equations**	**3 Expressions and formulae** 3d Making expressions **10 Equations** 10b Solving equations 10c Balancing equations 1 10d Balancing equations 2 10e Writing equations
		A23	› Solve linear inequalities in one variable › Represent the solution set on a number line	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Solve linear inequalities in one or two variable(s), and quadratic inequalities in one variable › Represent the solution set on a number line and on a graph Notes: Students should know the conventions of an open circle on a number line for a strict inequality and a closed circle for an included boundary. In graphical work the convention of a dashed line for strict inequalities and a solid line for an included inequality will be required.	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
ALGEBRA	SEQUENCES	A24	Generate terms of a sequence from either a term-to-term or a position-to-term rule	**13 Sequences**	**13 Sequences** 13a Term-to-term rules 13b Position-to-term rules 13c Real-life sequences	**13 Sequences** 13a Term-to-term rules 13b Position-to-term rules 13d Recursive sequences
		A25	Recognise and use sequences of triangular, square and cube numbers and simple arithmetic progressions	**13 Sequences**	**13 Sequences**	**13 Sequences**
			Extension content: Including quadratic sequences	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A26	Deduce expressions to calculate the nth term of linear sequences			**13 Sequences** 13c The nth term formula
			Extension content: Including quadratic sequences	No prior teaching needed at this level before OxfordAQA International GCSE study.		
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G1	Use conventional terms and notations: points, lines, vertices, edges, planes, parallel lines, perpendicular lines, right angles, polygons and regular polygons Use the standard conventions for labelling and referring to the sides and angles of triangles	**2 Measures, perimeter and area** 2a Measuring lines 2d Shapes **5 Angles and 2D shapes** 5a Angles 5b Adding angles 5d Finding angles at a point 5e Calculating angles 5f Properties of triangles 5g Angles in a triangle **12 Constructions and 3D shapes** 12a 3D shapes 12c Nets of other 3D shapes	**2 Constructions** **5 Angles and 2D shapes** 5a Angles 5c Properties of triangles 5d Angles in a triangle 5e Parallel lines 5f Properties of quadrilaterals 12a Lines and angles **14 3D shapes** 14a 3D shapes	**5 Angles and shapes** 5a Angles and lines 5b Angles in a triangle 5c Properties of triangles 5e Properties of quadrilaterals **14 3D shapes** 14a 3D shapes
		G2	Recall and use properties of angles at a point, angles at a point on a straight line including right angles and perpendicular lines; vertically opposite angles	**5 Angles and 2D shapes** 5a Angles 5b Addding angles 5d Finding angles at a point 5e Calculating angles	**5 Angles and 2D shapes** 5a Angles 5b Opposite angles	**5 Angles and shapes** 5a Angles and lines
		G3	Understand and use the angle properties of parallel and intersecting lines, triangles and quadrilaterals Notes: Students should know the meaning and properties of 'alternate', 'corresponding' and 'interior' angles. Colloquial terms such as 'Z angles' should not be used. Students should know the names and properties of isosceles, equilateral and scalene triangles, and also right-angled, acute-angled and obtuse-angled triangles.	**5 Angles and 2D shapes** 5f Properties of triangles 5g Angles in a triangle	**5 Angles and 2D shapes** 5c Properties of triangles 5d Angles in a triangle 5e Parallel lines 5f Properties of quadrilaterals	**5 Angles and shapes** 5a Angles and lines 5b Angles in a triangle 5c Properties of triangles 5d Angles in a quadrilateral 5e Properties of quadrilaterals

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G4	Calculate and use the sums of the interior and exterior angles of polygons Notes: Students should be able to calculate the values of the interior angle, exterior angle and angle at the centre of regular polygons.			**5 Angles and shapes** 5b Angles in a triangle 5c Properties of triangles
		G5	Recall the properties and definitions of special types of quadrilateral, including square, rectangle, parallelogram, trapezium, kite and rhombus	**2 Measures, perimeter and area** 2d Shapes	**5 Angles and 2D shapes** 5f Properties of quadrilaterals	**5 Angles and shapes** 5e Properties of quadrilaterals
		G6	Recognise reflection and rotation symmetry of 2D shapes	**9 Transformations and symmetry** 9a Lines of symmetry 9b Reflection 9d Rotation	**9 Transformations and symmetry** 9b Reflection symmetry 9d Rotational symmetry	**9 Transformations and symmetry** 9a Reflection and rotation symmetry
		G7	Understand congruence and similarity Calculate lengths of similar figures	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: Understand and use conditions for congruent triangles			**12 Constructions** 12e Constructing triangles
		G8	Identify and apply circle definitions and properties, including: centre, radius, chord, diameter, circumference including: tangent, arc, sector and segment Notes: Including angle subtended by an arc at the centre is equal to twice the angle subtended at any point on the circumference, angle subtended at the circumference by a semicircle is 90°, angles in the same segment are equal, opposite angles in a cyclic quadrilateral sum to 180°, tangent at any point on a circle is perpendicular to the radius at that point, tangents from an external point are equal in length, the perpendicular from the centre to a chord bisects the chord, alternate segment theorem.	**2 Measures, perimeter and area** 2d Shapes **12 Constructions and 3D shapes** 12g Introducing circles		**2 Measures, perimeter and area** 2f Circumference of a circle
			Extension content: Apply the standard circle theorems concerning angles, radii, tangents and chords, and use them to prove related results	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G9	**Extension content:** Geometrical reasoning and proof: use standard theorems to justify results in geometric contexts	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G10	Identify properties of the faces, surfaces, edges and vertices of cubes, cuboids, prisms, cylinders, pyramids, cones and spheres	**12 Constructions and 3D shapes** 12a 3D shapes 12b Nets of cubes 12c Nets of other 3D shapes	**14 3D shapes** 14a 3D shapes 14c Nets of 3D shapes 14d Surface area of a cuboid	**14 3D shapes** 14a 3D shapes 14f Surface area of a cuboid

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G11	› Interpret plans and elevations of 3D shapes › Construct and interpret plans and elevations of 3D shapes	**12 Constructions and 3D shapes** 12d 2D representations of 3D shapes		**14 3D shapes** **14c Plans and elevations**
		G12	› Measure line segments and angles in geometric figures, including interpreting maps and scale drawings and use of scale factors and bearings Notes: Including the eight compass point bearings and three-figure bearings.	**2 Measures, perimeter and area** 2a Measuring lines **5 Angles and 2D shapes** 5c Measuring angles 5h Compass turns **12e Measuring and drawing angles** 12 Constructions and 3D shapes 15 Ratio and proportion 15d Scale drawings	**12 Constructions** 12a Lines and angles 12d Scale drawing	**9 Transformations and symmetry** 9e Enlargement 9f Enlargement through a centre 9g Scale drawings **12 Constructions** 12f Bearings
		G13	› Use the standard ruler and compass constructions › (perpendicular bisector of a line segment, constructing a perpendicular to a given line from/at a given point, bisecting a given angle, constructing an angle of 60°) › Use these to construct given figures and solve loci problems › Know that the perpendicular distance from a point to a line is the shortest distance to the line	**12 Constructions and 3D shapes** 12f Drawing a triangle 12g Introducing circles	**12 Constructions** 12b Constructing a triangle 1 12c Constructing a triangle 2	**12 Constructions** 12a Using a protractor 12b Perpendicular lines 12c Perpendicular bisectors 12d Angle bisectors 12e Constructing triangles
	MENSURATION AND CALCULATION	G14	› Use standard units of measure and related concepts (length, area, volume/capacity, mass, time, money etc); change freely between related standard units (e.g. time, length, area, volume/capacity, mass) and compound units (e.g. speed and density) Notes: 24 and 12 hour clock for times.	**1 Whole numbers and decimals** 1d Decimals and money **2 Measures, perimeter and area** **15 Ratio and proportion** 15d Scale drawings	**2 Measures, perimeter and area** **6 Graphs** 6f Conversion graphs **12 Constructions** 12d Scale drawing **14 3D shapes** 14d Surface area of a cuboid 14e Volume of a cuboid	**2 Measures, perimeter and area** **12 Constructions** 12d Scale drawing **14 3D shapes** 14d Volume of a cuboid 14e Shapes made from cuboids 14f Surface area of a cuboid
		G15	› Know and apply formulae to calculate: area of triangles, parallelograms, trapezia; volume of 3D shapes using V = Ah where A is the constant cross sectional area and h is the height/length	**2 Measures, perimeter and area** 2f Area	**2 Measures, perimeter and area** 2e Perimeter and area 2f Area of a rectangle 2g Shapes made from rectangles **14 3D shapes** 14e Volume of a cuboid	**2 Measures, perimeter and area** 2c Area 2d Area of a triangle 2e Area of a parallelogram **14 3D shapes** 14d Volume of a cuboid 14e Shapes made from cuboids

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	MENSURATION AND CALCULATION	G16	› Know and use the formulae: › Circumference of a circle = 2πr = d › Area of a circle = πr2 › Calculate perimeters and areas of 2D shapes, including composite shapes Notes: Solutions in terms of π may be asked for.	**2 Measures, perimeter and area** 2e Perimeter 2f Area **12 Constructions and 3D shapes** 12g Introducing circles	**2 Measures, perimeter and area** 2e Perimeter and area 2f Area of a rectangle 2g Shapes made from rectangles	**2 Measures, perimeter and area** 2c Area 2d Area of a triangle 2e Area of a parallelogram
			Extension content: › Surface area and volume of spheres, pyramids, cones and composite solids including composite shapes and frustums of pyramids and cones			**14 3D shapes** 14e Shapes made from cuboids
		G17	**Extension content:** › Use the relationships between lengths, areas and volumes in similar figures	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G18	**Extension content:** › Calculate arc lengths, angles and areas of sectors of circles	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G19	› Know the formula for: Pythagoras' theorem, › a2 + b2 = c2 and the trigonometric ratios for › sin θ = opposite/hypotenuse › cos θ = adjacent/hypotenuse and › tan θ = opposite/adjacent › Apply them to find lengths and angles in right-angled triangles in two-dimensional figures	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Including 3D figures	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G20	**Extension content:** › Know and apply the sine rule, a/sinA = b/sinB = c/sinC › And cosine rule, a2 = b2 + c2 − 2bccosA › To find unknown lengths and angles › Know and apply Area = 1/2 absinC › To calculate the area, sides or angles of any triangle	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	TRANSFORMATIONS, MATRICES AND VECTORS	G21	› Describe and transform 2D shapes using single rotations, reflections, translations, or enlargements by a positive scale factor and distinguish properties that are preserved under particular transformations	**9 Transformations and symmetry** 9b Reflection 9c Translation 9d Rotation	**9 Transformations and symmetry** 9a Reflection 9c Rotation 9e Translation	**9 Transformations and symmetry** 9b Reflection 9c Translation 9d Rotation 9e Enlargement 9f Enlargement through a centre
			Extension content: › Including combined transformations and enlargements by fractional and negative scale factors			**9 Transformations and symmetry** 9e Enlargement

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Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	TRANSFORMATIONS, MATRICES AND VECTORS	G22	**Extension content:** › Understand and use vector notation; calculate, and represent graphically the sum of two vectors, the difference of two vectors and a scalar multiple of a vector; understand and use the commutative and associative properties of vector addition; solve simple geometrical problems in 2D using vector methods		**9 Transformations and symmetry** 9e Translation	**9 Transformations and symmetry** 9c Translation
		G23	**Extension content:** › Multiplications of matrices Notes: Multiplying a 2 × 2 matrix by a 2 × 2 matrix or by a 2 × 1 matrix, multiplication by a scalar.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G24	**Extension content:** › The identity matrix, I Notes: 2 × 2 only.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G25	**Extension content:** › Transformations of the unit square in the x – y plane Notes: Representation by a 2 × 2 matrix transformations restricted to rotations of 90°, 180° or 270° about the origin, reflections in a line through the origin (ie x = 0, y = 0, y = x, y = –x) and enlargements centred on the origin.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G26	**Extension content:** › Combination of transformations Notes: Using matrix multiplications use of i and j notation is not required.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
STATISTICS AND PROBABILITY	PRESENTATION AND ANALYSIS	S1	› Understand and use qualitative, discrete and continuous data, including grouped and ungrouped data		**8 Statistics** 8c Frequency tables 8d Bar charts	**8 Statistics** 8c Frequency tables 8d Bar charts 8i Frequency diagrams
		S2	› Extract data from printed tables and lists	**8 Statistics** 8c Reading lists and tables 8h Averages - the mode 8i Averages - the median 8j Comparing data - range and average	**8 Statistics** 8f Mode, median and range 8g The mean 8h Averages from frequency tables 8i Comparing data sets	**8 Statistics** 8c Frequency tables 8f Calculating averages 8h Stem-and-leaf diagrams 8i Frequency diagrams
		S3	› Design and use two-way tables for grouped and ungrouped data			**8 Statistics** 8g Scatter graphs

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
STATISTICS AND PROBABILITY	PRESENTATION AND ANALYSIS	S4	Produce charts and diagrams for various data types; scatter graphs, stem-and-leaf, tally charts, pictograms, bar charts, dual and composite bar charts, pie charts, line graphs, frequency polygons, histograms with equal class intervals	**6 Graphs** 6d Line graphs 1 **8 Statistics** 8b Organising data 8d Reading and drawing pictograms 8e Reading and drawing bar charts	**8 Statistics** 8c Frequency tables 8d Bar charts 8e Pie charts 8j Statistical reports	**6 Graphs** 6g Time series graphs **8 Statistics** 8c Frequency tables 8d Bar charts 8e Pie charts 8g Scater graphs 8h Stem-and-leaf diagrams 8i Frequency diagrams
			Extension content: Histograms with unequal class intervals, cumulative frequency diagrams, box plots	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		S5	Calculate median, mean, range, mode and modal class	**8 Statistics** 8h Averages - the mode 8i Averages - the median 8j Comparing data - range and average	**8 Statistics** 8f Mode, median and range 8g The mean 8h Averages from frequency tables 8i Comparing data sets	**8 Statistics** 8f Calculating averages 8h Stem-and-leaf diagrams 8i Frequency diagrams
			Extension content: Quartiles and inter-quartile range and percentiles	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	INTERPRETATION	S6	Read and interpret a wide range of graphs and diagrams and draw conclusions	**6 Graphs** 6c Reading graphs 6d Line graphs 1 6e Line graphs 2 **8 Statistics** 8b Organising data 8d Reading and drawing pictograms 8e Reading and drawing bar charts 8f Reading pie charts 8g Reading diagrams	**2 Measure, perimeter and area** 2d Reading scales **8 Statistics** 8c Frequency tables 8d Bar charts 8e Pie charts 8j Statistical reports	**8 Statistics** 8c Frequency tables 8d Bar charts 8f Calculating averages 8g Scatter graphs 8h Stem-and-leaf diagrams 8i Frequency diagrams 8j Writing a statistical report
		S7	Compare distributions and make inferences	**8 Statistics** 8j Comparing data - range and average	**8 Statistics** 8i Comparing data sets	**8 Statistics** 8d Bar charts 8i Frequency diagrams 8j Writing a statistical report
		S8	Recognise correlation and draw and/or use lines of best fit by eye, understanding what these represent Notes: Students should know and understand the terms: positive correlation, negative correlation, no correlation, weak correlation and strong correlation.			**8 Statistics** 8g Scatter graphs

Mapping of MyMaths for Key Stage 3: Foundation (Tier A) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1A (ages 11–12) chapters and sections**	**2A (ages 12–13) chapters and sections**	**3A (ages 13–14) chapters and sections**
STATISTICS AND PROBABILITY	PROBABILITY	S9	Understand and use the vocabulary of probability and the probability scale	**16 Probability** 16a Introducing probability 16b The probability scale 1 16c The probability scale 2	**16 Probability** 16a Likelihood and chance 16b The probability scale 16c Equally likely outcomes 16d Experimental probability	**16 Probability**
		S10	Understand and use estimates or measures of probability from theoretical models (including equally likely outcomes), or from relative frequency understand and use expected frequency	**16 Probability** 16a Introducing probability 16b The probability scale 1 16c The probability scale 2	**16 Probability** 16a Likelihood and chance 16b The probability scale 16c Equally likely outcomes 16d Experimental probability	**16 Probability** 16b Mutually exclusive events 16c Theoretical probability 16d Counting outcomes 16e Two events 16f Probability experiments
		S11	Compare experimental data and theoretical probabilities		**16 Probability** 16d Experimental probability	**16 Probability** 16c Theoretical probability 16f Probability experiments
		S12	Understand that if an experiment is repeated, this may – and usually will – result in different outcomes		**16 Probability** 16d Experimental probability	**16 Probability** 16f Probability experiments
		S13	Understand that increasing sample size generally leads to better estimates of probability and population characteristics		**16 Probability** 16d Experimental probability	**16 Probability** 16f Probability experiments
		S14	Understand and use sample spaces for situations where outcomes are single events and for situations where outcomes are two successive events			**16 Probability** 16d Counting outcomes 16e Two events
		S15	Identify different mutually exclusive and exhaustive outcomes and know that the sum of the probabilities of all these outcomes is 1 Know and use that for mutually exclusive events A and B P(A U B) = P(A) + P(B)			**16 Probability** 16b Mutually exclusive events
		S16	Understand and use Venn diagrams to work out probabilities	**16 Probability** 16d Sorting with Venn diagrams	**16 Probability** 16e Venn diagrams	**16 Probability** 16g Venn diagrams
		S17	**Extension content:** Calculate the probability of independent combined events, including using tree diagrams and other representations Know and use that for independent events A and B P(A U B) = P(A) × P(B)	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		S18	**Extension content:** Calculate conditional probabilities including using tree diagrams and other representations	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier B) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
NUMBER	STRUCTURE AND CALCULATION	N1	› Order positive and negative integers, decimals and fractions › Use the symbols =, ≠, <, >, ≤, ≥ Notes: Including use of a number line.	**1 Whole numbers and decimals** 1a Place value and decimals 1c Negative numbers	**1 Whole numbers and decimals** 1a Integers and decimals **4 Fractions, decimals and percentages** 4a Ordering decimals 4b Fractions and decimals **8 Statistics** 8b Collecting data 8d Bar charts and frequency diagrams 8f Averages from frequency tables	**4 Fractions, decimals and percentages** 4d Decimals and fractions **8 Statistics** 8c Frequency tables 8d Statistical diagrams 1 **10 Equations** 10e Trial and improvement **11 Powers and roots** 11a Square roots and cube roots 11d Standard form for larger numbers 11e Standard form for smaller numbers
		N2	› Apply the four operations, including formal written methods, to integers, decimals and simple fractions (proper and improper), and mixed numbers – all both positive and negative › Understand and use place value (e.g. when working with very large or very small numbers, and when calculating with decimals) Notes: Including questions set in context.	**1 Whole numbers and decimals** 1a Place value and decimals 1b Multiply and divide by 10, 100 and 1000 1c Negative numbers 1d Mental methods of additions and subtraction 1e Written methods of addition and subtraction 1f Calculator methods 1 **4 Fractions, decimals and percentages** 4c Addition and subtraction of fractions 4e Fractions of a quantity **7 Whole number calculations** 7b Order of operations 7c Mental multiplication and division 7d Written methods of multiplication 7e Written methods of division 7f Calculator methods 2 **14 Decimal calculations**	**1 Whole numbers and decimals** 1a Integers and decimals 1b Multiplying and dividing integers **4 Fractions, decimals and percentages** 4c Adding and subtracting fractions 4d Fraction of a quantity **7 Mental calculations** 7b Mental addition and subtraction 7c Multiply and divide by powers of 10 7d Mental multiplication and division 7e Mental addition and subtraction problems 7f Mental multiplication and division problems **11 Written and calculator methods**	**1 Whole numbers and decimals** 1a Powers of 10 **4 Fractions, decimals and percentages** 4a Adding and subtracting fractions 4b Multiplying fractions 4c Dividing by fractions **7 Decimal calculations**

Mapping of MyMaths for Key Stage 3: Foundation (Tier B) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
NUMBER	STRUCTURE AND CALCULATION	N3	› Recognise and use relationships between operations, including inverse operations (e.g. cancellation to simplify calculations and expressions) › Use conventional notation for priority of operations, including brackets, powers, roots and reciprocals	**7 Whole number calculations** 7b Order of operations 7f Calculator methods 2 **10 Equations** 10a Multiplying and dividing terms 10c Simple equations 10d More simple equations 10e Two-step equations	**1 Whole numbers and decimals** 1b Multiplying and dividing integers 1g Square roots 1h Cube roots **7 Mental calculations** 7f Mental multiplication and division problems **10 Equations** 10a Solving one-step equations 10b Solving multi-step equations 10c Two-step equations **11 Written and calculator methods** 11d Order of operations	**1 Whole numbers and decimals** 1a Powers of 10 **3 Expressions and formulae** 3a Factors in algebra 3b Algebraic fractions 3d Rearranging formulae **4 Fractions, decimals and percentages** 4b Multiplying fractions 4c Dividing by fractions **7 Calculations** 7d Using a calculator **10 Equations** 10a Solving equations **11 Powers and roots** 11a Square roots and cube roots 11b Indices
		N4	› Use the concepts and vocabulary of even, odd and prime numbers, factors (divisors), multiples, common factors, common multiples, highest common factor, lowest common multiple, prime factorisation, including using product notation Notes: Prime factor decomposition including product of prime factor written in index form.	**11 Factors and multiples** 11a Factors and multiples 11d Prime numbers 11e LCM and HCF	**1 Whole numbers and decimals** 1c Multiples and factors 1d Prime numbers 1e LCM and HCF	**1 Whole numbers and decimals** 1c Factors, multiples and primes
		N5	› Use positive integer powers and associated real roots (square, cube and higher), recognise powers of 2, 3, 4, 5	**11 Factors and multiples** 11b Square numbers 11c Square roots	**1 Whole numbers and decimals** 1f Squares and cubes 1g Square roots 1h Cube roots 3 Expressions and formulae 3b Indices	**11 Powers and roots** 11a Square roots and cube roots 11b Indices 11c Indices and surds
		N6	› Index laws for multiplication and division using integer powers		**3 Expressions and formulae** 3b Indices	**11 Powers and roots** 11b Indices
			Extension content: › Including fractional powers			**11 Powers and roots** 11c Indices and surds

Mapping of MyMaths for Key Stage 3: Foundation (Tier B) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
NUMBER	STRUCTURE AND CALCULATION	N7	› Calculate exactly with fractions	**4 Fractions, decimals and percentages** 4c Additions and subtraction of fractions 4e Fraction of a quantity	**4 Fractions, decimals and percentages** 4c Adding and subtracting fractions 4d Fraction of a quantity	**4 Fractions, decimals and percentages** 4a Adding and subtracting fractions 4b Multiplying fractions 4c Dividing by fractions
			Extension content: › Calculate exactly with surds › Manipulation and simplification of surds including rationalising a denominator			**11 Powers and roots** 11c Indices and surds
		N8	› Calculate with and interpret standard form $A \times 10^n$, where $1 \leq A < 10$ and n is an integer Notes: Interpret calculator displays.			**11 Powers and roots** 11d Standard form for larger numbers 11e Standard form for smaller numbers
		N9	› Use language and notation of sets including n(A), A′, A ∪ B, A ∩ B, ξ understand and use Venn diagrams to solve problems	**16 Probability** 16e Sets	**16 Probability** 16e Sets	**16 Probability** 16g Venn diagrams
		N10	› Use calculators effectively and efficiently including trigonometrical functions	**1 Whole numbers and decimals** 1f Calculator methods 1 **7 Whole number calculations** 7f Calculator methods 2 **11 Factors and multiples** 11c Square roots **14 Decimal calculations** 14d Interpreting a calculator display	**1 Whole numbers and decimals** 1g Square roots 1h Cube roots **11 Written and calculator methods** 11d Order of operations 11g Calculation methods	**7 Calculations** 7d Using a calculator 7e Interpreting the calculator display **11 Powers and roots** 11a Square roots and cube roots 11c Indices and surds 11e Standard form for smaller numbers
		N11	› Round numbers and measures to an appropriate degree of accuracy (eg to a specified number of decimal places or significant figures) › Apply and interpret limits of accuracy › Use estimation to work out approximate answers to calculations	**1 Whole numbers and decimals** 1e Written methods of addition and subtraction 1f Calculator methods **7 Whole number calculations** 7a Rounding 7d Written methods of multiplication 7e Written methods of division 7f Calculator methods 2 **14 Decimal calculations** 14b Written methods of multiplying decimals 14c Written methods of dividing decimals 14d Interpreting a calculator display	**7 Mental calculations** 7a Rounding 7b Mental addition and subtraction 7d Mental multiplication and division 7e Mental addition and subtraction problems **11 Written and calculator methods** 11b Written methods of multiplication 11c Written methods of division	**1 Whole numbers and decimals** **1b Rounding** 1d Estimating and approximation **7 Calculations** 7e Interpreting the calculator display
			Extension content: › Calculate and use upper and lower bounds			**1 Whole numbers and decimals** 1b Rounding

Mapping of MyMaths for Key Stage 3: Foundation (Tier B) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
NUMBER	FRACTIONS, DECIMAL AND PERCENTAGES	N12	› Understand and use equivalent fractions, understand and use percentages, convert between fractions, terminating decimals and percentages	**4 Fractions, decimals and percentages** 4b Equivalent fractions 4d Decimals and fractions 4f Percentages 4g Percentage of an amount 4h Fractions, decimals and percentages **15 Ratio and proportion** 15a Proportion	**4 Fractions, decimals and percentages** 4b Fractions and decimals 4c Adding and subtracting fractions 4e Percentages of amounts 4f Fractions, decimals and percentages **15 Ratio and proportion** 15e Percentage increase and decrease 15f Comparing proportions	**4 Fractions, decimals and percentages** 4a Adding and subtracting fractions 4d Decimals and fractions 4e Percentage change 4f Percetage problems 4g Financial maths 1: Repeated percentage change **15 Ratio and proportion** 15b Comparing proportions 15e Ratio and proprtion problems
			Extension content: › Convert between fractions and recurring decimals		**4 Fractions, decimals and percentages** 4b Fractions and decimals	**4 Fractions, decimals and percentages** 4d Decimals and fractions
		N13	› Interpret fractions, decimals and percentages as operators	**4 Fractions, decimals and percentages** 4e Fraction of a quantity 4g Percentage of an amount 4h Fractions, decimals and percentages	**4 Fractions, decimals and percentages** 4d Fraction of a quantity 4e Percentages of amounts 4f Percentages **15 Ratio and proportion** 15e Percentage increase and decrease	**4 Fractions, decimals and percentages** 4b Multiplying fractions 4e Percentage change 4f Percentage problems 4g Financial maths 1: percentage change **15 Ratio and proportion** 15e Ratio and proportion problems
		N14	› Express one quantity as a fraction/percentage of another, where the fraction is less than 1 or greater than 1 or the percentage is less than 100 or greater than 100	**4 Fractions, decimals and percentages** 4a Fractions 4e Fraction of a quantity 4g Percentage of an amount **15 Ratio and proportion** 15a Proportion	**4 Fractions, decimals and percentages** 4b Fractions and decimals 4d Fraction of a quantity 4e Percentages of amounts 4f Fractions, decimals and percentages **15 Ratio and proportion** 15e Percentage increase and decrease 15f Comparing proportions	**4 Fractions, decimals and percentages** 4b Multiplying fractions 4e Percentage change 4f Percentage problems 4g Financial maths 1: percentage change **15 Ratio and proportion** 15b Comparing proportions 15e Ratio and proportion problems
		N15	› Solve problems involving percentage change, including increase/decrease, simple interest and compound interest		**15 Ratio and proportion** 15e Percentage increase and decrease	**4 Fractions, decimals and percentages** 4e Percentage change 4f Percentage problems 4g Financial maths 1: percentage change 15 Ratio and proportion 15e Ratio and proportion problems
			Extension content: › Reverse percentage problems › Knowledge and use of the compound interest formula › Value of investment = P(1 + R/100)n where P is the amount invested, r is the percentage rate of interest and n is the number of years of compound interest			**15 Ratio and proportion** 15e Ratio and proportion problems

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NUMBER	RATIO AND PROPORTION	N16	› Use ratio notation, including reduction to simplest form and links to fraction notation	**15 Ratio and proportion** 15c Ratio 15d Ratio and proportion problems	**15 Ratio and proportion** 15a Ratio 15b Division into a given ratio 15d Ratio and proportion	**15 Ratio and proportion** 15c Ratio 15d Uses of ratio 15e Ratio and proportion problems
		N17	› Divide a quantity in a given ratio	**15 Ratio and proportion** 15c Ratio 15d Ratio and proportion problems	**15 Ratio and proportion** 15a Ratio 15b Division into a given ratio 15d Ratio and proportion	**15 Ratio and proportion** 15c Ratio 15d Uses of ratio 15e Ratio and proportion problems
		N18	› Apply ratio to solve problems	**15 Ratio and proportion** 15c Ratio 15d Ratio and proportion problems	**15 Ratio and proportion** 15a Ratio 15b Division into a given ratio 15d Ratio and proportion	**15 Ratio and proportion** 15c Ratio 15d Uses of ratio 15e Ratio and proportion problems
		N19	› Use common measures of rate, including calculating rates of pay and best-buy problems			**15 Ratio and proportion** 15g Financial maths 2: Living on a budget
		N20	› Solve problems involving direct and inverse proportion including repeated proportional change	**15 Ratio and proportion** 15a Proportion 15b Direct proportion	**15 Ratio and proportion** 15c Direct proportion 15d Ratio and proportion 15f Comparing proportions	**15 Ratio and proportion** 15a Direct proportion 15b Comparing proportions 15e Ratio and proportion problems 15f Proportional reasoning 15g Financial maths 2: Living on a budget
			Extension content: › Exponential growth and decay	No prior teaching needed at this level before OxfordAQA International GCSE study.		
ALGEBRA	NOTATION AND MANIPULATION	A1	› Use letters to express generalised numbers and express basic arithmetic processes algebraically	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A2	› Substitute numbers for words and letters in formulae and transform simple formulae	**3 Expressions and formulae** 3d Using a formula 3f Expressions and formulae **6 Graphs** 6b Tables of values	**3 Expressions and formulae** 3a Simplifying and substituting 3e Substitution into formulae 3f Writing a formula **10 Equations** 10d Real-life equations	**3 Expressions and formulae** 3c Formulae in context 3d Rearranging formulae **6 Graphs** 6a Tables of values **10 Equations** 10e Trial and improvement
			Extension content: › Transform complex formulae including when the subject appears twice			**3 Expressions and formulae** 3d Rearranging formulae

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Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
ALGEBRA	NOTATION AND MANIPULATION	A3	› Understand and use the concepts of expressions, equations, formulae, identities, inequalities, terms and factors	**3 Expressions and formulae** **10 Equations** 10a Multiplying and dividing terms 10c Simple equations 10d More simple equations 10e Two-step equations	**3 Expressions and formulae** **10 Equations**	**3 Expressions and formulae** **10 Equations**
		A4	› Collecting like terms and expanding brackets up to expanding products of two linear expressions	**3 Expressions and formulae** 3b Expressions 3c Collecting like terms	**3 Expressions and formulae** 3a Simplifying and substituting 3b Indices 3c Like terms 3d Expanding brackets **10 Equations** 10c Equations with brackets	**10 Equations** 10b Equations with brackets
			Extension content: › Expanding products of two or three binomials	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A5	› Taking out common factors, factorising quadratic expressions of the form x2 + bx + c; including the difference of two squares			**3 Expressions and formulae** 3a Factors in algebra
			Extension content: › Factorising quadratic expressions of the form ax2 + bx + c; including the difference of two squares	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A6	› Index laws for multiplication and division using integer powers		**3 Expressions and formulae** 3b Indices	**11 Powers and roots** 11b Indices
			Extension content: › Including fractional powers			**11 Powers and roots** 11c Indices and surds
		A7	› Manipulation of rational expressions: use of + – × ÷ for algebraic fractions with denominators being numeric			**3 Expressions and formulae** 3b Algebraic fractions
			Extension content: › Linear or quadratic algebraic expressions			**3 Expressions and formulae** 3b Algebraic fractions
		A8	› Argue mathematically to show algebraic expressions are equivalent, and use algebra to support and construct arguments	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › To include proofs	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier B) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
ALGEBRA	FUNCTIONS, GRAPHS AND CALCULUS	A9	› Interpret simple expressions as functions with inputs and outputs		**6 Graphs** 6a Drawing straight-line graphs	**6 Graphs** 6a Tables of values
			Extension content: › Definition of a function, use function notation of the form f (x) = ..., understand and use the terms domain and range, understand and find the composite function fg and the inverse function f –1	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A10	› Work with coordinates in all four quadrants	**6 Graphs** 6a Coordinates		
		A11	› Plot graphs of equations that correspond to straight line graphs in the coordinate plane › Use the form y = mx + c › Identify and interpret gradients and intercepts of linear functions graphically and algebraically › Understand the gradients of parallel lines	**6 Graphs** 6c Plotting straight-line graphs	**6 Graphs** 6a Drawing straight-line graphs 6b Equation of a straight line	**6 Graphs** 6a Tables of values 6b Drawing straight-line graphs 6c Gradient of a straight-line graph 6d y-intercept of a straight-line graph 6e The equation y = mx + c 6f Equations given implicitly
			Extension content: › Find the equation of the line through two given points, or through one point with a given gradient › Understand and use the gradients of perpendicular lines			**6 Graphs** 6b Drawing straight-line graphs 6e The equation y = mx + c
		A12	› Recognise, sketch and interpret graphs of linear functions and quadratic functions including simple cubic functions and the reciprocal function y = 1/x with x ≠ 0	**6 Graphs** 6c Plotting straight-line graphs	**6 Graphs** 6a Drawing straight-line graphs 6b Equation of a straight line	**6 Graphs** 6a Tables of values 6b Drawing straight-line graphs 6c Gradient of a straight-line graph 6d y-intercept of a straight-line graph 6e The equation y = mx + c 6f Equations given implicitly
			Extension content: › Including exponential functions y = k x for positive values of k, and the trigonometric functions (with arguments in degrees) › y = sin x, y = cos x and y = tan x for angles of any size	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A13	**Extension content:** › Understand and use the gradient function dy/dx › Differentiation of kxn where n is a positive integer or 0, and the sum of such functions Notes: Including expressions which need to be simplified first.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A14	**Extension content:** › Know that the gradient of a function is the gradient of the tangent at that point › Work out the equation of a tangent at any point on a curve	No prior teaching needed at this level before OxfordAQA International GCSE study.		

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OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
ALGEBRA	FUNCTIONS, GRAPHS AND CALCULUS	A15	**Extension content:** › Use of differentiation to find stationary points on a curve: maxima, minima and points of inflection › Sketch a curve with known stationary points	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A16	› Identify and interpret roots, intercepts and turning points of quadratic functions graphically › Deduce roots algebraically	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Deduce turning points by completing the square	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A17	› Plot and interpret graphs, and graphs of nonstandard functions in real contexts, to find approximate solutions to problems such as simple kinematic problems involving distance, speed and acceleration › Interpret the gradient of a straight-line graph as a rate of change	**6 Graphs** 6d Real-life graphs	**6 Graphs** 6c Real-life graphs 1 6d Real-life graphs 2 6e Time series graphs	**6 Graphs** 6g Real-life graphs 6h Distance-time graphs 6i Time series
			Extension content: › Calculate or estimate gradients of graphs and areas under graphs (including quadratic and other non-linear graphs), and interpret results in cases such as distance-time graphs and velocity-time graphs			**6 Graphs** 6c Gradient of a straight-line graph 6e The equation y = mx + c 6f Equations given implicitly 6h Distance-time graphs
		A18	**Extension content:** › Express direct and inverse variation in algebraic terms and use this form of expression to find unknown quantities	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	SOLVING EQUATIONS AND INEQUALITIES	A19	› Solve linear equations in one unknown algebraically › Find approximate solutions using a graph Notes: Including use of brackets and those with the unknown on both sides of the equation.	**6 Graphs** 6c Plotting straight-line graphs **10 Equations** 10c Simple equations 10d More simple equations 10e Two-step equations	**10 Equations**	**6 Graphs** 6d y-intercept of a straight-line graph 6e 6e The equation y = mx + c 6f Equations given implicitly **10 Equations** 10a Solving equations 10b Equations with brackets 10c Unknowns on both sides 10d Constructing equations
		A20	› Solve quadratic equations algebraically by factorising › Find approximate solutions using a graph	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Including completing the square and by using the quadratic formula	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier B) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
ALGEBRA	SOLVING EQUATIONS AND INEQUALITIES	A21	› Solve two linear simultaneous equations in two variables algebraically › Find approximate solutions using a graph			**6 Graphs** 6b Drawing straight-line graphs
			Extension content: › Including one linear and one quadratic	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A22	› Translate simple situations or procedures into algebraic expressions or formulae › Derive an equation (or two simultaneous equations), solve the equation(s) and interpret the solution Notes: Including the solution of geometrical problems and problems set in context.	**3 Expressions and formulae** 3e Writing a formula **10 Equations** 10c Simple equations 10d More simple equations 10e Two-step equations	**3 Expressions and formulae** 3f Writing a formula **10 Equations**	**3 Expressions and formulae** 3e Deriving and graphing formulae **10 Equations**
		A23	› Solve linear inequalities in one variable › Represent the solution set on a number line	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Solve linear inequalities in one or two variable(s), and quadratic inequalities in one variable › Represent the solution set on a number line and on a graph Notes: Students should know the conventions of an open circle on a number line for a strict inequality and a closed circle for an included boundary. In graphical work the convention of a dashed line for strict inequalities and a solid line for an included inequality will be required.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	SEQUENCES	A24	› Generate terms of a sequence from either a term-to-term or a position-to-term rule	**13 Sequences**	**13 Sequences** 13a Term-to-term rules 13b Position-to-term rules 13c Sequences in context	**13 Sequences** 13a Sequences and terms 13b Position-to-term rules 13d Real-life sequences 13e Recursive sequences
		A25	› Recognise and use sequences of triangular, square and cube numbers and simple arithmetic progressions	**13 Sequences**	**13 Sequences**	**13 Sequences**
			Extension content: › Including quadratic sequences	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A26	› Deduce expressions to calculate the nth term of linear sequences			**13 Sequences** 13c The general term 13d Real-life sequences
			Extension content: › Including quadratic sequences	No prior teaching needed at this level before OxfordAQA International GCSE study.		

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OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G1	› Use conventional terms and notations: points, lines, vertices, edges, planes, parallel lines, perpendicular lines, right angles, polygons and regular polygons › Use the standard conventions for labelling and referring to the sides and angles of triangles	**5 Angles and 2D shapes** 5a Angle measure 5c Drawing lines and angles 5d Calculating angles 5e Angles in a triangle 5f Properties of triangles 5g Properties of quadrilaterals 5h Properties of polygons	**5 Angles and shapes** 5a Angles 5b Properties of a triangle 5c Angles in parallel lines 5d Properties of a quadrilateral 5e Properties of a polygon **14 3D shapes** 14a 3D shapes	**5 Angles** 5a Angle properties of a triangle 5b Angle properties of a quadrilateral 5c Angle properties of a polygon 1 5d Angle properties of a polygon 2 **14 3D shapes** 14a 3D shapes 14c Symmetry of a 3D shape
		G2	› Recall and use properties of angles at a point, angles at a point on a straight line including right angles and perpendicular lines; vertically opposite angles	**5 Angles and 2D shapes** 5a Angle measure 5d Calculating angles	**5 Angles and shapes** 5a Angles 5c Angles in parallel lines	**5 Angles** 5a Angle properties of a triangle
		G3	› Understand and use the angle properties of parallel and intersecting lines, triangles and quadrilaterals Notes: Students should know the meaning and properties of 'alternate', 'corresponding' and 'interior' angles. Colloquial terms such as 'Z angles' should not be used. Students should know the names and properties of isosceles, equilateral and scalene triangles, and also right-angled, acute-angled and obtuse-angled triangles.	**5 Angles and 2D shapes** 5e Angles in a triangle 5f Properties of triangles 5g Properties of quadrilaterals	**5 Angles and shapes** 5b Properties of a triangle 5c Angles in parallel lines 5d Properties of a quadrilateral	**5 Angles** 5a Angle properties of a triangle 5b Angle properties of a quadrilateral
		G4	› Calculate and use the sums of the interior and exterior angles of polygons Notes: Students should be able to calculate the values of the interior angle, exterior angle and angle at the centre of regular polygons.		**5 Angles and shapes** 5b Properties of a triangle 5d Properties of a quadrilateral	**5 Angles** 5a Angle properties of a triangle 5b Angle properties of a quadrilateral 5c Angle properties of a polygon 1 5d Angle properties of a polygon 2
		G5	› Recall the properties and definitions of special types of quadrilateral, including square, rectangle, parallelogram, trapezium, kite and rhombus	**5 Angles and 2D shapes** 5g Properties of quadrilaterals	**5 Angles and shapes** 5d Properties of a quadrilateral	**5 Angles** 5b Angle properties of a quadrilateral
		G6	› Recognise reflection and rotation symmetry of 2D shapes	**9 Transformations and symmetry** 9b Reflection symmetry 9d Rotation symmetry	**9 Transformations and symmetry** 9c Symmetry	**5 Angles** 5b Angle properties of a quadrilateral 5c Angle properties of a polygon 1

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OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G7	› Understand congruence and similarity › Calculate lengths of similar figures	**9 Transformations and symmetry** 9a Reflection 9c Rotation 9e Translation 9f Tessellations **12 Constructions and 3D shapes** 12a Constructing triangles 1	**5 Angles and shapes** 5e Properties of a polygon 5f Congruent shapes **9 Transformations and symmetry** 9d Enlargements 1	**5 Angles** 5e Congruent shapes **9 Transformations and scale** 9a Transformations 9b Enlargements 9c Combinations of transformations **12 Constructions and Pythagoras** 12a Constructing a triangle 1 12b Constructing a triangle 2
			Extension content: › Understand and use conditions for congruent triangles	**12 Constructions and 3D shapes** 12a Constructing triangles 1 12b Constructing triangles 2		**12 Constructions and Pythagoras** 12a Constructing a triangle 1 12b Constructing a triangle 2
		G8	› Identify and apply circle definitions and properties, including: centre, radius, chord, diameter, circumference including: tangent, arc, sector and segment Notes: Including angle subtended by an arc at the centre is equal to twice the angle subtended at any point on the circumference, angle subtended at the circumference by a semicircle is 90°, angles in the same segment are equal, opposite angles in a cyclic quadrilateral sum to 180°, tangent at any point on a circle is perpendicular to the radius at that point, tangents from an external point are equal in length, the perpendicular from the centre to a chord bisects the chord, alternate segment theorem.			**2 Measures, perimeter and area** 2d Circumference of a circle 2e Area of a circle
			Extension content: › Apply the standard circle theorems concerning angles, radii, tangents and chords, and use them to prove related results	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G9	**Extension content:** › Geometrical reasoning and proof: use standard theorems to justify results in geometric contexts	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G10	› Identify properties of the faces, surfaces, edges and vertices of cubes, cuboids, prisms, cylinders, pyramids, cones and spheres	**12 Constructions and 3D shapes** 12d Properties of 3D shapes 12f Nets of 3D shapes	**14 3D shapes** 14a 3D shapes 14c Surface area of a cuboid 14e Prisms	**14 3D shapes** 14a 3D shapes 14d Surface area of a prism
		G11	› Interpret plans and elevations of 3D shapes › Construct and interpret plans and elevations of 3D shapes		**14 3D shapes** 14b Plans and elevations	**14 3D shapes** 14b Plans and elevations

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OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G12	› Measure line segments and angles in geometric figures, including interpreting maps and scale drawings and use of scale factors and bearings Notes: Including the eight compass point bearings and three-figure bearings.	**2 Measures, perimeter, area** 2a Length **5 Angles and 2D shapes** 5a Angle measure 5b Measuring angles **12 Constructions and 3D shapes** 12c Scale drawings	**9 Transformations and symmetry** 9d Enlargements 1 9e Enlargements 2 **12 Constructions** 12f Scale drawings 12g Bearings **15 Ratio and proportion** 15a Ratio	**9 Transformations and scale** 9b Enlargements 9d Maps and scale drawings 9e Bearings
		G13	› Use the standard ruler and compass constructions › Perpendicular bisector of a line segment, constructing a perpendicular to a given line from/at a given point, bisecting a given angle, constructing an angle of 60° › Use these to construct given figures and solve loci problems › Know that the perpendicular distance from a point to a line is the shortest distance to the line	**12 Constructions and 3D shapes** 12a Constructing traingles 1 12b Constructing triangles 2	**12 Constructions** 12a Constructing triangles 1 12b Constructing triangles 2 12c Bisectors 12d Constructing perpendiculars 12e Loci	**12 Constructions and Pythagoras** 12a Constructing a triangle 1 12b Constructing a triangle 2 12c Loci and constructions
	MENSURATION AND CALCULATION	G14	› Use standard units of measure and related concepts (length, area, volume/capacity, mass, time, money etc); change freely between related standard units (eg time, length, area, volume/capacity, mass) and compound units (eg speed and density) Notes: 24 and 12 hour clock for times.	**2 Measures, perimeter, area** **12 Constructions and 3D shapes** 12c Scale drawings 12g Volume	**2 Measures, perimeter and area** **12 Constructions** 12f Scale drawing **14 3D shapes** 14c Surface area of a cuboid 14d Volume of a cuboid 14e Prisms	**2 Measures, perimeter and area** **9 Transformations and scale** 9d Maps and scale drawings **14 3D shapes** 14d Surface area of a prism 14e Volume of a prism
		G15	› Know and apply formulae to calculate: area of triangles, parallelograms, trapezia; volume of 3D shapes using V = Ah where A is the constant cross sectional area and h is the height/length	**2 Measures, perimeter, area** 2e Area 2f Area of a rectangle 2g Area of a triangle 2h Area of a parallelogram **12 Constructions and 3D shapes** 12g Volume	**2 Measures, perimeter and area** 2c Perimeter and area of a rectangle 2d Area of a triangle 2e Area of a parallelogram and a trapezium **14 3D shapes** 14d Volume of a cuboid 14e Prisms	**2 Measures, perimeter and area** 2c Area of a 2D shape **14 3D shapes** 14e Volume of a prism

Mapping of MyMaths for Key Stage 3: Foundation (Tier B) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	MENSURATION AND CALCULATION	G16	› Know and use the formulae: › Circumference of a circle = 2πr = d › Area of a circle = πr2 › Calculate perimeters and areas of 2D shapes, including composite shapes Notes: Solutions in terms of π may be asked for.	**2 Measures, perimeter, area** 2d Perimeter 2e Area 2f Area of a rectangle 2g Area of a triangle 2h Area of a parallelogram	**2 Measures, perimeter and area** 2c Perimeter and area of a rectangle 2d Area of a triangle 2e Area of a parallelogram and a trapezium	**2 Measures, perimeter and area** 2c Area of a 2D shape 2d Circumference of a circle 2e Area of a circle
			Extension content: › Surface area and volume of spheres, pyramids, cones and composite solids including composite shapes and frustums of pyramids and cones	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G17	**Extension content:** › Use the relationships between lengths, areas and volumes in similar figures	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G18	**Extension content:** › Calculate arc lengths, angles and areas of sectors of circles	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G19	› Know the formula for: Pythagoras' theorem, › a2 + b2 = c2 and the trigonometric ratios for › sin θ = opposite/hypotenuse › cos θ = adjacent/hypotenuse and › tan θ = opposite/adjacent › Apply them to find lengths and angles in right-angled triangles in two-dimensional figures			**12 Constructions and Pythagoras** 12d Pythagoras' theorem 1 12e Pythagoras' theorem 2
			Extension content: › Including 3D figures	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G20	**Extension content:** › Know and apply the sine rule, a/sinA = b/sinB = c/sinC › And cosine rule, a2 = b2 + c2 − 2bccosA › To find unknown lengths and angles › Know and apply Area = 1/2 absinC › To calculate the area, sides or angles of any triangle	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	TRANSFORMATIONS, MATRICES AND VECTORS	G21	› Describe and transform 2D shapes using single rotations, reflections, translations, or enlargements by a positive scale factor and distinguish properties that are preserved under particular transformations	**9 Transformations and symmetry** 9a Reflection 9c Rotation 9e Translation	**9 Transformations and symmetry** 9a Transformations 9d Enlargements 1 9e Enlargements 2	**9 Transformations and scale** 9a Transformations 9b Enlargements
			Extension content: › Including combined transformations and enlargements by fractional and negative scale factors		**9 Transformations and symmetry** 9b Combinations of transformations	**9 Transformations and scale** 9c Cominations of transformations

Mapping of MyMaths for Key Stage 3: Foundation (Tier B) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1B (ages 11–12) chapters and sections	2B (ages 12–13) chapters and sections	3B (ages 13–14) chapters and sections
GEOMETRY AND MEASURES	TRANSFORMATIONS, MATRICES AND VECTORS	G22	**Extension content:** › Understand and use vector notation; calculate, and represent graphically the sum of two vectors, the difference of two vectors and a scalar multiple of a vector; understand and use the commutative and associative properties of vector addition; solve simple geometrical problems in 2D using vector methods			**9 Transformations and scale** 9a Transformations 9c Combinations of transformations
		G23	**Extension content:** › Multiplications of matrices Notes: Multiplying a 2 × 2 matrix by a 2 × 2 matrix or by a 2 × 1 matrix, multiplication by a scalar.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G24	**Extension content:** › The identity matrix, I Notes: 2 × 2 only.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G25	**Extension content:** › Transformations of the unit square in the x – y plane Notes: Representation by a 2 × 2 matrix transformations restricted to rotations of 90°, 180° or 270° about the origin, reflections in a line through the origin (ie x = 0, y = 0, y = x, y = –x) and enlargements centred on the origin.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G26	**Extension content:** › Combination of transformations Notes: Using matrix multiplications use of i and j notation is not required.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
STATISTICS AND PROBABILITY	PRESENTATION AND ANALYSIS	S1	› Understand and use qualitative, discrete and continuous data, including grouped and ungrouped data	**8 Statistics** 8i Tally charts and frequency tables	**8 Statistics** 8b Collecting data 8d Bar charts and frequency diagrams	**8 Statistics** 8a Planning a project 8b Data collection 8c Frequency tables 8d Statistical diagrams 1 8i Averages from grouped data
		S2	› Extract data from printed tables and lists	**8 Statistics** 8d Mode, median and range 8e The mean 8i Tally charts and frequency tables 8j Comparing data	**8 Statistics** 8b Collecting data 8e Averages 8f Averages from frequency tables 8h Stem-and-leaf diagrams	**8 Statistics** 8c Frequency tables 8f Calculating averages 8i Averages from grouped data

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OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
STATISTICS AND PROBABILITY	PRESENTATION AND ANALYSIS	S3	› Design and use two-way tables for grouped and ungrouped data	**8 Statistics** 8a Bar charts	**8 Statistics** 8b Collecting data	**8 Statistics** 8c Frequency tables 8e Statistical diagrams 2 8f Calculating averages 8h Correlation 8j Comparing distributions
		S4	› Produce charts and diagrams for various data types; scatter graphs, stem-and-leaf, tally charts, pictograms, bar charts, dual and composite bar charts, pie charts, line graphs, frequency polygons, histograms with equal class intervals	**8 Statistics** 8a Bar charts 8c Line graphs 8i Tally charts and frequency tables	**6 Graphs** 8 Statistics 6e Time series graphs 8b Collecting data 8c Pie charts 8d Bar charts and frequency diagrams 8g Scatter graphs and correlation 8h Stem-and-leaf diagrams	**6 Graphs** 8 Statistics 6i Time series 8c Frequency tables 8d Statistical diagrams 1 8e Statistical diagrams 2 8g Interpreting graphs 8h Correlation 8j Comparing distributions
			Extension content: › Histograms with unequal class intervals, cumulative frequency diagrams, box plots	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		S5	› Calculate median, mean, range, mode and modal class	**8 Statistics** 8d Mode, median and range 8e The mean 8j Comparing data	**8 Statistics** 8e Averages 8f Averages from frequency tables 8h Stem-and-leaf diagrams	**8 Statistics** 8f Calculating averages 8i Averages from grouped data 8j Comparing distributions
			Extension content: › Quartiles and inter-quartile range and percentiles	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	INTERPRETATION	S6	› Read and interpret a wide range of graphs and diagrams and draw conclusions	**8 Statistics** 8a Bar charts 8b Reading and interpreting pie charts 8c Line graphs 8f Interpreting graphs and charts	**8 Statistics** 8c Pie charts 8d Bar charts and frequency diagrams 8g Scatter graphs and correlation 8h Stem-and-leaf diagrams	**6 Graphs** 8 Statistics 6i Time series 8g Interpreting graphs 8h Correlation 8j Comparing distributions
		S7	› Compare distributions and make inferences	**8 Statistics** 8j Comparing data	**8 Statistics** 8h Stem-and-leaf diagrams	**8 Statistics** 8j Comparing distributions
		S8	› Recognise correlation and draw and/or use lines of best fit by eye, understanding what these represent Notes: Students should know and understand the terms: positive correlation, negative correlation, no correlation, weak correlation and strong correlation.		**8 Statistics** 8g Scatter graphs and correlation	**8 Statistics** 8h Correlation
	PROBABILITY	S9	› Understand and use the vocabulary of probability and the probability scale	**16 Probability** 16a The probability scale 16b Equally likely outcomes 16c Mutually exclusive events 16d Experimental probability 16e Comparing probabilities	**16 Probability** 16a Listing outcomes 16b Probability 16c Experimental probability 16d Theoretical and experimental probability	**16 Probability**

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OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1B (ages 11–12) chapters and sections**	**2B (ages 12–13) chapters and sections**	**3B (ages 13–14) chapters and sections**
STATISTICS AND PROBABILITY	PROBABILITY	S10	› Understand and use estimates or measures of probability from theoretical models (including equally likely outcomes), or from relative frequency understand and use expected frequency	**16 Probability** 16a The probability scale 16b Equally likely outcomes 16c Mutually exclusive events 16d Experimental probability 16e Comparing probabilities	**16 Probability** 16a Listing outcomes 16b Probability 16c Experimental probability 16d Theoretical and experimental probability	**16 Probability** 16b Mutually exclusive events 16c Calculating probabilities 16d The outcomes of two trials 16e Experimental probability 16f Comparing theoretical and experimental probabilities
		S11	› Compare experimental data and theoretical probabilities	**16 Probability** 16d Experimental probability	**16 Probability** 16c Experimental probability 16d Theoretical and experimental probability	**16 Probability** 16e Experimental probability 16f Comparing theoretical and experimental probabilities
		S12	› Understand that if an experiment is repeated, this may – and usually will – result in different outcomes	**16 Probability** 16d Experimental probability	**16 Probability** 16c Experimental probability 16d Theoretical and experimental probability	**16 Probability** 16a Prediction and uncertainty
		S13	› Understand that increasing sample size generally leads to better estimates of probability and population characteristics	**16 Probability** 16d Experimental probability	**16 Probability** 16c Experimental probability 16d Theoretical and experimental probability	**16 Probability** 16a Prediction and uncertainty
		S14	› Understand and use sample spaces for situations where outcomes are single events and for situations where outcomes are two successive events		**16 Probability** 16a Listing outcomes	**16 Probability** 16d The outcomes of two trials 16f Comparing theoretical and experimental probabilities
		S15	› Identify different mutually exclusive and exhaustive outcomes and know that the sum of the probabilities of all these outcomes is 1 › Know and use that for mutually exclusive events A and B P(A U B) = P(A) + P(B)	**16 Probability** 16c Mutually exclusive outcomes		**16 Probability** 16b Mutually exclusive events
		S16	› Understand and use Venn diagrams to work out probabilities	**16 Probability** 16f Sorting with Venn diagrams	**16 Probability** 16e Sets	**16 Probability** 16g Venn diagrams
		S17	**Extension content:** › Calculate the probability of independent combined events, including using tree diagrams and other representations › Know and use that for independent events A and B P(A U B) = P(A) × P(B)			**16 Probability** 16d The outcomes of two trials
		S18	**Extension content:** › Calculate conditional probabilities including using tree diagrams and other representations			**16 Probability** 16d The outcomes of two trials

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
NUMBER	STRUCTURE AND CALCULATION	N1	› Order positive and negative integers, decimals and fractions › Use the symbols =, ≠, <, >, ≤, ≥ Notes: Including use of a number line.	**1 Whole numbers and decimals** 1a Place value and decimals 1c Negative numbers **4 Fractions, decimals and percentages** 4c Decimals and fractions **8 Statistics** 8h Grouping data	**1 Whole numbers and decimals** 1g Trial-and-improvement 1 **4 Fractions, decimals and percentages** 4a Fractions and decimals **7 Mental calculations** 7a Arithmetic with negative integers **8 Statistics** 8c Frequency tables 8e Averages 1 8i Comparing distributions	**1 Whole numbers and decimals** 1b Upper and lower bounds 1 1c Upper and lower bounds 2 **2 Measures, perimeter and area** 2a Measures **8 Statistics** 8c Frequency diagrams 8e The mean 8g Cumulative frequency 8i Comparing distributions **10 Equations** 10f Solving inequalities 10g Solving equations using trial-and-improvement **11 Powers and roots** 11a Standard form for larger numbers 11b Standard form for smaller numbers **16 Probability** 16f Simulations

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
NUMBER	STRUCTURE AND CALCULATION	N2	› Apply the four operations, including formal written methods, to integers, decimals and simple fractions (proper and improper), and mixed numbers – all both positive and negative › Understand and use place value (e.g. when working with very large or very small numbers, and when calculating with decimals) Notes: Including questions set in context.	**1 Whole numbers and decimals** 1a Place value and decimals 1b Multiply and divide by 10, 100 and 1000 1c Negative numbers 1d Mental methods of additions and subtraction 1e Written methods of addition and subtraction 1f Calculator methods 1 **4 Fractions, decimals and percentages** 4b Adding and subtracting fractions 4d Fractions of a quantity **7 Whole number calculations** 7b Order of operations 7c Mental methods of multiplication and division 7d Written methods of multiplication 7e Written methods of division 7f Calculator methods 2 **14 Decimal calculations**	**1 Whole numbers and decimals** 1c LCM and HCF **3 Expressions and formulae** 3i Algebraic fractions **4 Fractions, decimals and percentages** 4b Adding and subtracting fractions 4c Multiplying and dividing fractions **7 Mental calculations** **11 Written and calculator methods**	**1 Whole numbers and decimals** 1a Significant figures **4 Fractions, decimals and percentages** 4a Calculating with fractions **7 Decimal calculations** **11 Powers and roots** 11c Powers and operations **15 Ratio and proportion** 15a Fractions and proportion
		N3	› Recognise and use relationships between operations, including inverse operations (e.g. cancellation to simplify calculations and expressions) › Use conventional notation for priority of operations, including brackets, powers, roots and reciprocals	**3 Expressions and formulae** 3h Simplifcation and division **7 Whole number calculations** 7b Order of operations **10 Equations** 10a Solving equations	**1. Whole number and decimals** 1e Indices **3 Expressions and formulae** 3b Index laws 3c Collecting like terms including powers 3g Rearranging formulae **4 Fractions, decimals and percentages** 4c Multiplying and dividing fractions 4e Percentage problems **10 Equations** 10c Equations with fractions **11 Written and calculator methods** 11e Order of operations 11g Multiplication and division problems	**3 Expressions and formulae** 3d Factorising expressions 3g Changing the subject of a formula 1 **4 Fractions, decimals and percentages** 4a Calculating with fractions **7 Decimal calculations** 7a Order of operations **10 Equations** 10a Consolidating linear equations **11 Powers and roots** 11c Powers and operations 11d Indices and surds

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
NUMBER	STRUCTURE AND CALCULATION	N4	› Use the concepts and vocabulary of even, odd and prime numbers, factors (divisors), multiples, common factors, common multiples, highest common factor, lowest common multiple, prime factorisation, including using product notation Notes: Prime factor decomposition including product of prime factor written in index form.	**11 Factors and multiples** 11b Factors and multiples 11c Prime factors 11d Divisibility tests 11e LCM and HCF using prime factors	**1 Whole numbers and decimals** 1a Factors, multiples and primes 1b Prime factor decomposition 1c LCM and HCF	**1 Whole numbers and decimals** 1d Using numbers in index form
		N5	› Use positive integer powers and associated real roots (square, cube and higher), recognise powers of 2, 3, 4, 5	**11 Factors and multiples** 11a Squares and square roots	**1 Whole numbers and decimals** 1d Square roots and cube roots 1g Trial-and-improvement 1 **3 Expressions and formulae** 3a Indices in algebra 3b Index laws 3c Collecting like terms including powers	**1 Whole numbers and decimals** 1d Using numbers in index form **3 Expressions and formulae** 3a Index laws 1 3b Index laws 2 **11 Powers and roots** 11c Powers and operations 11d Indices and surds
		N6	› Index laws for multiplication and division using integer powers		**3 Expressions and formulae** 3b Index laws	**3 Expressions and formulae** 3a Index laws 1 3b Index laws 2
			Extension content: › Including fractional powers			**11 Powers and roots** 11d Indices and surds
		N7	› Calculate exactly with fractions	**4 Fractions, decimals and percentages** 4b Adding and subtracting fractions 4d Fraction of a quantity	**4 Fractions, decimals and percentages** 4b Adding and subtracting fractions 4c Multiplying and dividing fractions	**4 Fractions, decimals and percentages** 4a Calculating with fractions **15 Ratio and proportion** 15a Fractions and proportion
			Extension content: › Calculate exactly with surds › Manipulation and simplification of surds including rationalising a denominator			**11 Powers and roots** 11d Indices and surds
		N8	› Calculate with and interpret standard form $A \times 10^n$, where $1 \leq A < 10$ and n is an integer Notes: Interpret calculator displays.		**7 Mental calculations** 7b Powers of 10	**11 Powers and roots** 11a Standard form for larger numbers 11b Standard form for smaller numbers
		N9	› Use language and notation of sets including n(A), A′, $A \cup B$, $A \cap B$, ξ understand and use Venn diagrams to solve problems	**16 Probability** 16f Sorting with Venn diagrams	**16 Probability** 16g Venn diagrams and probability	**16 Probability** 16g Venn diagrams

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
NUMBER	STRUCTURE AND CALCULATION	N10	› Use calculators effectively and efficiently including trigonometrical functions	**1 Whole numbers and decimals** 1f Calculator methods 1 **7 Whole number calculations** 7f Calculator methods 2 **11 Factors and multiples** 11a Squares and square roots **14 Decimal calculations** 14d Calculator methods 3	**1 Whole numbers and decimals** 1d Square roots and cube roots 1e Indices **11 Written and calculator methods** 11c Calculator skills 11d Calculators in context 11e Order of operations	**4 Fractions, decimals and percentages** 4b Recurring decimals and recpirocals **7 Decimal calculations** 7a Order of operations 7c Using a calculator 7d Interpreting the calculator display **11 Powers and roots** 11a Standard form for larger numbers 11b Standard form for smaller numbers
		N11	› Round numbers and measures to an appropriate degree of accuracy (e.g. to a specified number of decimal places or significant figures) › Apply and interpret limits of accuracy › Use estimation to work out approximate answers to calculations	**1 Whole numbers and decimals** 1d Mental addition and subtraction 1e Written addition and subtraction 1f Calculator methods 1 **7 Whole number calculations** 7a Rounding 7c Mental methods of multiplication and division 7d Written methods of multiplication 7e Written methods of division 7f Calculator methods 2 **11 Factors and multiples** 11a Squares and square roots **14 Decimal calculations** 14b Multiplying decimals 14c Dividing decimals 14d Calculator methods 3	**1 Whole numbers and decimals** 1d Square roots and cube roots 1f Rounding and estimation 1g Trial-and-improvement 1 **7 Mental calculations** 7c Mental addition and subtraction 7d Mental multiplication and division **10 Equations** 10d Trial and improvement 2 **11 Written and calculator methods** 11a Multiplication 11b Division 11e Order of operations 11f Written addition and subtraction	**1 Whole numbers and decimals** 1a Significant figures 1b Upper and lower bounds 1 1c Upper and lower bounds 2 **4 Fractions, decimals and percentages** 4b Recurring decimals and recpirocals **5 Angles and 2D shapes** 5d Arcs and sectors **7 Decimal calculations** 7a Order of operations 7b Calculating with decimals 7c Using a calculator 7d Interpreting the calculator display **14 3D shapes and trigonometry** 14d Trigonometry 2
			Extension content: › Calculate and use upper and lower bounds	**7 Whole number calculations** 7a Rounding	**1 Whole numbers and decimals** 1f Rounding and estimation	**1 Whole numbers and decimals** 1b Upper and lower bounds 1 1c Upper and lower bounds 2
	FRACTIONS, DECIMAL AND PERCENTAGES	N12	› Understand and use equivalent fractions, understand and use percentages, convert between fractions, terminating decimals and percentages	**4 Fractions, decimals and percentages** 4a Fraction notation 4b Adding and subtracting fractions 4c Decimals and fractions 4e Percentages 4f Fractions, decimals and percentages **15 Ratio and proportion** 15a Introducing proportion 15f Percentage problems	**4 Fractions, decimals and percentages** 4a Fractions and decimals 4b Adding and subtracting fractions 4d Percentage change 4e Percentage problems 4f Fractions, decimals and percentages **15 Ratio and proportion** 15e Comparing proportions	**4 Fractions, decimals and percentages**

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
NUMBER	FRACTIONS, DECIMAL AND PERCENTAGES		**Extension content:** › Convert between fractions and recurring decimals	**4 Fractions, decimals and percentages** 4c Decimals and fractions **7 Whole number calculations** 7a Rounding	**4 Fractions, decimals and percentages** 4a Fractions and decimals	**4 Fractions, decimals and percentages** 4b Recurring decimals and reciprocals
		N13	› Interpret fractions, decimals and percentages as operators	**4 Fractions, decimals and percentages** 4d Fraction of a quantity 4e Percentages 4f Fractions, decimals and percentages **15 Ratio and proportion** 15f Percentage problems	**4 Fractions, decimals and percentages** 4d Percentage change 4e Percentage problems	**4 Fractions, decimals and percentages** 4c Percentage increase and decrease 4d Reverse percentages 4e Financial maths 1: Repeated percentage change **15 Ratio and proportion** 15a Fractions and proportion
		N14	› Express one quantity as a fraction/percentage of another, where the fraction is less than 1 or greater than 1 or the percentage is less than 100 or greater than 100	**4 Fractions, decimals and percentages** 4a Fraction notation 4d Fraction of a quantity 4e Percentages 4f Fractions, decimals and percentages **15 Ratio and proportion** 15a Introducing proportion 15f Percentage problems	**4 Fractions, decimals and percentages** 4b Fractions and decimals 4d Fraction of a quantity 4e Percentages of amounts 4f Fractions, decimals and percentages **15 Ratio and proportion** 15e Comparing proportions	**4 Fractions, decimals and percentages** 4c Percentage increase and decrease 4d Reverse percentages 4e Financial maths 1: Repeated percentage change **15 Ratio and proportion** 15a Fractions and proportion 15c Proportionality
		N15	› Solve problems involving percentage change, including increase/decrease, simple interest and compound interest	**4 Fractions, decimals and percentages** 4e Percentages **15 Ratio and proportion** 15f Percentage problems	**4 Fractions, decimals and percentages** 4d Percentage change 4e Percentage problems 4f Fractions, decimals and percentages **15 Ratio and proportion** 15e Comparing proportions	**4 Fractions, decimals and percentages** 4c Percentage increase and decrease 4h Financial maths 1: Repeated percentage change
			Extension content: › Reverse percentage problems › Knowledge and use of the compound interest formula › Value of investment = $P(1 + R/100)^n$ where P is the amount invested, r is the percentage rate of interest and n is the number of years of compound interest		**4 Fractions, decimals and percentages** 4e Percentage problems	**4 Fractions, decimals and percentages** 4d Reverse percentages
	RATIO AND PROPORTION	N16	› Use ratio notation, including reduction to simplest form and links to fraction notation	**15 Ratio and proportion** 15c Ratio 15d Dividing into a given ratio 15e Ratio and proportion	**15 Ratio and proportion** 15a Ratio 15b Division into a given ratio 15d Ratio and proportion	**15 Ratio and proportion** 15b Ratio and proportion

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
NUMBER	RATIO AND PROPORTION	N17	› Divide a quantity in a given ratio	**15 Ratio and proportion** 15c Ratio 15d Dividing into a given ratio 15e Ratio and proportion	**15 Ratio and proportion** 15a Ratio 15b Division into a given ratio 15d Ratio and proportion	**15 Ratio and proportion** 15b Ratio and proportion
		N18	› Apply ratio to solve problems	**15 Ratio and proportion** 15c Ratio 15d Dividing into a given ratio 15e Ratio and proportion	**15 Ratio and proportion** 15a Ratio 15b Division into a given ratio 15d Ratio and proportion	**15 Ratio and proportion** 15b Ratio and proportion
		N19	› Use common measures of rate, including calculating rates of pay and best-buy problems			**15 Ratio and proportion** 15g Financial maths 2: Living on a budget
		N20	› Solve problems involving direct and inverse proportion including repeated proportional change	**15 Ratio and proportion** 15a Introducing proportion 15b Direct proportion 15e Ratio and proportion	**15 Ratio and proportion** 15c Direct proportion 15d Ratio and proportion 15f Comparing proportions 15f Algebra and proportion	**15 Ratio and proportion** 15a Fractions and proportion 15b Ratio and proportion 15c Proportionality 15d Proportion and scale 15e Proportional reasoning 15g Financial maths 2: Living on a budget
			Extension content: › Exponential growth and decay	No prior teaching needed at this level before OxfordAQA International GCSE study.		
ALGEBRA	NOTATION AND MANIPULATION	A1	› Use letters to express generalised numbers and express basic arithmetic processes algebraically	**3 Expressions and formulae**	**3 Expressions and formulae** **10 Equations** 10e Real-life equations	**3 Expressions and formulae**
		A2	› Substitute numbers for words and letters in formulae and transform simple formulae	**3 Expressions and formulae** 3a Using letter symbols 3d Using a formula 3f Further substitution	**3 Expressions and formulae** 3a Indices in algebra 3f Formulae 3g Rearranging formulae **6 Graphs** 6e Graphs of implicit functions **10 Equations** 10d Trial-and-improvement 2 10e Real-life equations	**3 Expressions and formulae** 3f Formulae 3g Changing the subject of a formula 1 3h Changing the subject of a formula 2 **10 Equations** 10g Solving equations using trial and improvement
			Extension content: › Transform complex formulae including when the subject appears twice		**3 Expressions and formulae** 3g Rearranging formulae	**3 Expressions and formulae** 3g Changing the subject of a formula 1 3h Changing the subject of a formula 2
		A3	› Understand and use the concepts of expressions, equations, formulae, identities, inequalities, terms and factors	**3 Expressions and formulae** **10 Equations**	**3 Expressions and formulae** **10 Equations**	**3 Expressions and formulae** **10 Equations**

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
ALGEBRA	NOTATION AND MANIPULATION	A4	› Collecting like terms and expanding brackets up to expanding products of two linear expressions	**3 Expressions and formulae** 3b Collecting like terms 3c Expanding brackets	**3 Expressions and formulae** 3c Collecting like terms including powers 3d Expanding brackets **10 Equations** 10a Linear equations 1 10c Equations with fractions	**3 Expressions and formulae** 3c Multiplying linear expressions
			Extension content: › Expanding products of two or three binomials	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A5	› Taking out common factors, factorising quadratic expressions of the form x2 + bx + c; including the difference of two squares		**3 Expressions and formulae** 3e Factorising expressions	**3 Expressions and formulae** 3d Factorising expressions
			Extension content: › Factorising quadratic expressions of the form ax2 + bx + c; including the difference of two squares	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A6	› Index laws for multiplication and division using integer powers	No prior teaching needed at this level before OxfordAQA International GCSE study.		
			Extension content: › Including fractional powers			**11 Powers and roots** 11d Indices and surds
		A7	› Manipulation of rational expressions: use of + – × ÷ for algebraic fractions with denominators being numeric		**3 Expressions and formulae** 3i Algebraic fractions	
			Extension content: › Linear or quadratic algebraic expressions		**3 Expressions and formulae** 3i Algebraic fractions	
		A8	› Argue mathematically to show algebraic expressions are equivalent, and use algebra to support and construct arguments			**3 Expressions and formulae** 3e Identities
			Extension content: › To include proofs			**3 Expressions and formulae** 3e Identities
	FUNCTIONS, GRAPHS AND CALCULUS	A9	› Interpret simple expressions as functions with inputs and outputs		**6 Graphs** 6a Graphs of linear functions 6c Curved graphs 6e Graphs of implicit functions	**6 Graphs** 6b Graphs of linear functions 6d Quadratic graphs 1 6f Cubic graphs 6j Exponential and reciprocal graphs
			Extension content: › Definition of a function, use function notation of the form f (x) = ..., understand and use the terms domain and range, understand and find the composite function fg and the inverse function f –1	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A10	› Work with coordinates in all four quadrants	**6 Graphs** 6a Coordinates		

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
ALGEBRA	FUNCTIONS, GRAPHS AND CALCULUS	A11	› Plot graphs of equations that correspond to straight line graphs in the coordinate plane › Use the form y = mx + c › Identify and interpret gradients and intercepts of linear functions graphically and algebraically › Understand the gradients of parallel lines	**6 Graphs** 6b Plotting horizontal and vertical lines 6c Plotting straight-line graphs 6d The equation of a straight line	**6 Graphs** 6a Graphs of linear functions 6b Equation of a straight line 6e Graphs of implicit functions	**6 Graphs** 6a The gradient of a straight-line graph 6b Graphs of linear functions 6c Parallel and perpendicular lines
			Extension content: › Find the equation of the line through two given points, or through one point with a given gradient › Understand and use the gradients of perpendicular lines	**6 Graphs** 6d The equation of a straight line	**6 Graphs** 6b Equation of a straight line	**6 Graphs** 6b Graphs of linear functions 6c Parallel and perpendicular lines
		A12	› Recognise, sketch and interpret graphs of linear functions and quadratic functions including simple cubic functions and the reciprocal function y = 1/x with x ≠ 0	**6 Graphs** 6b Plotting horizontal and vertical lines 6c Plotting straight-line graphs 6d The equation of a straight line	**6 Graphs** 6a Graphs of linear functions 6b Equation of a straight line 6c Curved graphs 6e Graphs of implicit functions	**6 Graphs** 6a The gradient of a straight-line graph 6b Graphs of linear functions 6c Parallel and perpendicular lines 6d Quadratic graphs 1 6e Quadratic graphs 2 6f Cubic graphs 6j Exponential and reciprocal graphs
			Extension content: › Including exponential functions y = k x for positive values of k, and the trigonometric functions (with arguments in degrees) › y = sin x, y = cos x and y = tan x for angles of any size			**6 Graphs** 6j Exponential and reciprocal graphs
		A13	**Extension content:** › Understand and use the gradient function dy/dx › Differentiation of kxn where n is a positive integer or 0, and the sum of such functions Notes: Including expressions which need to be simplified first.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A14	**Extension content:** › Know that the gradient of a function is the gradient of the tangent at that point › Work out the equation of a tangent at any point on a curve	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A15	**Extension content:** › Use of differentiation to find stationary points on a curve: maxima, minima and points of inflection › Sketch a curve with known stationary points	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A16	› Identify and interpret roots, intercepts and turning points of quadratic functions graphically › Deduce roots algebraically		**6 Graphs** 6c Curved graphs	**6 Graphs** 6d Quadratic graphs 1 6e Quadratic graphs 2
			Extension content: › Deduce turning points by completing the square	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
ALGEBRA	FUNCTIONS, GRAPHS AND CALCULUS	A17	› Plot and interpret graphs, and graphs of nonstandard functions in real contexts, to find approximate solutions to problems such as simple kinematic problems involving distance, speed and acceleration › Interpret the gradient of a straight-line graph as a rate of change	**6 Graphs** 6e Real-life graphs 6f Line graphs for time series	**6 Graphs** 6f Real-life graphs 6g Time series	**6 Graphs** 6g Distance-time graphs 6h Real-life graphs 6i Time series
			Extension content: › Calculate or estimate gradients of graphs and areas under graphs (including quadratic and other non-linear graphs), and interpret results in cases such as distance-time graphs and velocity-time graphs		**6 Graphs** 6f Real-life graphs	**6 Graphs** 6a The gradient of a straight-line graph 6b Graphs of linear functions 6c Parallel and perpendicular lines 6g Distance-time graphs
		A18	**Extension content:** › Express direct and inverse variation in algebraic terms and use this form of expression to find unknown quantities		**15 Ratio and proportion** 15f Algebra and proportion	
	SOLVING EQUATIONS AND INEQUALITIES	A19	› Solve linear equations in one unknown algebraically › Find approximate solutions using a graph Notes: Including use of brackets and those with the unknown on both sides of the equation.	**10 Equations**	**6 Graphs** 6a Graphs of linear functions 6b Equation of a straight line **10 Equations** 10a Linear equations 1 10b Linear equations 2 10c Equations with fractions	**6 Graphs** 6b Graphs of linear functions **10 Equations** 10a Consolidating linear equations
		A20	› Solve quadratic equations algebraically by factorising › Find approximate solutions using a graph		**6 Graphs** 6c Curved graphs	**6 Graphs** 6d Quadratic graphs 1
			Extension content: › Including completing the square and by using the quadratic formula	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		A21	› Solve two linear simultaneous equations in two variables algebraically › Find approximate solutions using a graph	**6 Graphs** 6b Plotting horizontal and vertical lines 6c Plotting straight-line graphs 6d The equation of a straight line	**6 Graphs** 6a Graphs of linear functions 6e Graphs of implicit functions	**10 Equations** 10b Simultaneous equations 1 10c Simultaneous equations 2 10d Constructing simultaneous equations 10e Solving simultaneous equations with graphs
			Extension content: › Including one linear and one quadratic	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
ALGEBRA	SOLVING EQUATIONS AND INEQUALITIES	A22	› Translate simple situations or procedures into algebraic expressions or formulae › Derive an equation (or two simultaneous equations), solve the equation(s) and interpret the solution Notes: Including the solution of geometrical problems and problems set in context.	**3 Expressions and formulae** 3e Writing a formula **10 Equations**	**3 Expressions and formulae** 3f Formulae 3h Writing expressions **6 Graphs** 6a Graphs of linear functions 6e Graphs of implicit functions **10 Equations**	**3 Expressions and formulae** 3f Formulae **10 Equations**
		A23	› Solve linear inequalities in one variable › Represent the solution set on a number line			**10 Equations** 10f Solving inequalities
			Extension content: › Solve linear inequalities in one or two variable(s), and quadratic inequalities in one variable › Represent the solution set on a number line and on a graph Notes: Students should know the conventions of an open circle on a number line for a strict inequality and a closed circle for an included boundary. In graphical work the convention of a dashed line for strict inequalities and a solid line for an included inequality will be required.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	SEQUENCES	A24	› Generate terms of a sequence from either a term-to-term or a position-to-term rule	**13 Sequences**	**13 Sequences** 13a General term of a sequence 13d Recursive seqeunces	**13 Sequences** 13a Position-to-term rules 13b Patterns and sequences 13d Behaviour of a sequence
		A25	› Recognise and use sequences of triangular, square and cube numbers and simple arithmetic progressions	**13 Sequences**	**13 Sequences**	**13 Sequences**
			Extension content: › Including quadratic sequences			**13 Sequences** 13c Quadratic sequences
		A26	› Deduce expressions to calculate the nth term of linear sequences		**13 Sequences** 13a General term of a sequence 13b Sequences in context	**13 Sequences** 13a Position-to-term rules 13b Patterns and sequences
			Extension content: › Including quadratic sequences			**13 Sequences** 13c Quadratic sequences
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G1	› Use conventional terms and notations: points, lines, vertices, edges, planes, parallel lines, perpendicular lines, right angles, polygons and regular polygons › Use the standard conventions for labelling and referring to the sides and angles of triangles	**5 Angles and 2D shapes** 5a Calculating angles 5b Angles and parallel lines 5d Properties of triangles 5e Properties of quadrilaterals 5f Properties of polygons	**5 Angles and shapes** **14 3D shapes** 14a 3D shapes	**5 Angles** 5a Angle problems 5b Angles in a polygon

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G2	› Recall and use properties of angles at a point, angles at a point on a straight line including right angles and perpendicular lines; vertically opposite angles	**5 Angles and 2D shapes** 5a Calculating angles 5b Angles and parallel lines	**5 Angles and shapes** 5a Angles and parallel lines	**5 Angles** 5a Angle problems
		G3	› Understand and use the angle properties of parallel and intersecting lines, triangles and quadrilaterals Notes: Students should know the meaning and properties of 'alternate', 'corresponding' and 'interior' angles. Colloquial terms such as 'Z angles' should not be used. Students should know the names and properties of isosceles, equilateral and scalene triangles, and also right-angled, acute-angled and obtuse-angled triangles.	**5 Angles and 2D shapes** 5b Angles and parallel lines 5d Properties of triangles 5c Angles in triangles and quadrilaterals 5d Properties of triangles 5e Properties of quadrilaterals	**5 Angles and shapes** 5a Angles and parallel lines 5b Properties of a triangle and a quadrilateral	**5 Angles** 5a Angle problems
		G4	› Calculate and use the sums of the interior and exterior angles of polygons Notes: Students should be able to calculate the values of the interior angle, exterior angle and angle at the centre of regular polygons.	**5 Angles and 2D shapes** 5c Angles in triangles and quadrilaterals	**5 Angles and shapes** 5b Properties of a triangle and a quadrilateral 5d Properties of a polygon	**5 Angles** 5a Angle problems 5b Angles in a polygon
		G5	› Recall the properties and definitions of special types of quadrilateral, including square, rectangle, parallelogram, trapezium, kite and rhombus	**5 Angles and 2D shapes** 5e Properties of quadrilaterals	**5 Angles and shapes** 5b Properties of a triangle and a quadrilateral	
		G6	› Recognise reflection and rotation symmetry of 2D shapes	**9 Transformations and symmetry** 9c Symmetry	**9 Transformations and symmetry** 9c Symmetry	**5 Angles** 5b Angles in a polygon
		G7	› Understand congruence and similarity › Calculate lengths of similar figures	**9 Transformations and symmetry**	**5 Angles and shapes** 5d Congruent shapes **9 Transformations and symmetry** 9a Transformations 9d Enlargements 1 9e Enlargements 2 **12 Constructions** 12a Constructing triangles 1 12b Constructing triangles 2	**5 Angles** 5e Congruence **9 Transformations and scale** 9a Transformations 9b Enlargements 1 9c Enlargements 2 9e Similar shapes **14 3D shapes and trigonometry** 14c Trigonometry
			Extension content: › Understand and use conditions for congruent triangles	**12 Constructions and 3D shapes** 12b Constructing triangles 1 12c Constructing triangles 2	**12 Constructions** 12a Constructing triangles 1 12b Constructing triangles 2	**5 Angles** 5e Congruence

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	**Subtopic area**	**Specification objective code**	**Specification objective**	**1C (ages 11–12) chapters and sections**	**2C (ages 12–13) chapters and sections**	**3C (ages 13–14) chapters and sections**
GEOMETRY AND MEASURES	PROPERTIES AND CONSTRUCTIONS	G8	› Identify and apply circle definitions and properties, including: centre, radius, chord, diameter, circumference including: tangent, arc, sector and segment Notes: Including angle subtended by an arc at the centre is equal to twice the angle subtended at any point on the circumference, angle subtended at the circumference by a semicircle is 90°, angles in the same segment are equal, opposite angles in a cyclic quadrilateral sum to 180°, tangent at any point on a circle is perpendicular to the radius at that point, tangents from an external point are equal in length, the perpendicular from the centre to a chord bisects the chord, alternate segment theorem.		**2 Measures, perimeter and area** 2e Circumference of a circle 2f Area of a circle	**2 Measures, perimeter and area** 2c Length and area **5 Angles** 5c Circle properties 5d Arcs and sectors
			Extension content: › Apply the standard circle theorems concerning angles, radii, tangents and chords, and use them to prove related results	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G9	**Extension content:** › Geometrical reasoning and proof: use standard theorems to justify results in geometric contexts			**5 Angles** 5a Angle problems
		G10	› Identify properties of the faces, surfaces, edges and vertices of cubes, cuboids, prisms, cylinders, pyramids, cones and spheres	**2 Measures, perimeter, area** 2f Surface area of a cuboid **12 Constructions and 3D shapes** 12f 2D representations of 3D shapes	**14 3D shapes** 14a 3D shapes 14c Surface area of a prism	**14 3D shapes and trigonometry** 14a 3D shapes
		G11	› Interpret plans and elevations of 3D shapes › Construct and interpret plans and elevations of 3D shapes	**12 Constructions and 3D shapes** 12g Plans and elevations	**14 3D shapes** 14b Plans and elevations	
		G12	› Measure line segments and angles in geometric figures, including interpreting maps and scale drawings and use of scale factors and bearings Notes: Including the eight compass point bearings and three-figure bearings.	**9 Transformations and symmetry** 9e Enlargement **12 Constructions and 3D shapes** 12e Scale drawings	**9 Transformations and symmetry** 9d Enlargements 1 9e Enlargements 2 **12 Constructions** 12d Scale drawings 12f Bearings	**9 Transformations and symmetry** 9b Enlargements 1 9c Enlargements 2 9d Maps and scale drawings **14 3D shapes and trigonometry** 14e Bearings
		G13	› Use the standard ruler and compass constructions (perpendicular bisector of a line segment, constructing a perpendicular to a given line from/at a given point, bisecting a given angle, constructing an angle of 60°) › Use these to construct given figures and solve loci problems › Know that the perpendicular distance from a point to a line is the shortest distance to the line	**12 Constructions and 3D shapes** 12a Constructing bisectors 12b Constructing traingles 1 12c Constructing triangles 2 12d Simple loci	**12 Constructions** 12a Constructing triangles 1 12b Constructing triangles 2 12c Bisectors and perpendiculars 12e Loci	**12 Constructions and Pythagoras** 12c Constructing a triangle 12d Loci

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
GEOMETRY AND MEASURES	MENSURATION AND CALCULATION	G14	› Use standard units of measure and related concepts (length, area, volume/capacity, mass, time, money etc.); change freely between related standard units (e.g. time, length, area, volume/capacity, mass) and compound units (e.g. speed and density) Notes: 24 and 12 hour clock for times.	**2 Measures, perimeter, area** **12 Constructions and 3D shapes** 12e Scale drawings	**2 Measures, perimeter and area** **11 Written and calculator methods** 11d Calculators in context **12 Constructions** 12d Scale drawing **14 3D shapes** 14c Surface area of a prism 14d Volume of a prism	**2 Measures, perimeter and area** **14 3D shapes** 14b 3D geometry
		G15	› Know and apply formulae to calculate: area of triangles, parallelograms, trapezia; volume of 3D shapes using V = Ah where A is the constant cross sectional area and h is the height/length	**2 Measures, perimeter, area** 2c Perimeter an area of a rectangle 2d Perimeter and area of a triangle 2e Area of a parallelogram and trapezium 2g Volume of a cuboid	**2 Measures, perimeter and area** 2c Area of a rectangle and a triangle 2d Area of a parallelogram and a trapezium **14 3D shapes** 14d Volume of a prism	**2 Measures, perimeter and area** 2c Length and area **14 3D shapes and trigonometry** 14b 3D geometry
		G16	› Know and use the formulae: › Circumference of a circle = 2πr = d › Area of a circle = πr2 › Calculate perimeters and areas of 2D shapes, including composite shapes Notes: Solutions in terms of π may be asked for.	**2 Measures, perimeter, area** 2c Perimeter an area of a rectangle 2d Perimeter and area of a triangle 2e Area of a parallelogram and trapezium	**2 Measures, perimeter and area** 2c Area of a rectangle and a triangle 2d Area of a parallelogram and a trapezium	**2 Measures, perimeter and area** 2c Length and area
			Extension content: › Surface area and volume of spheres, pyramids, cones and composite solids including composite shapes and frustums of pyramids and cones	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G17	**Extension content:** › Use the relationships between lengths, areas and volumes in similar figures	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G18	**Extension content:** › Calculate arc lengths, angles and areas of sectors of circles			**5 Angles and 2D shapes** 5d Arcs and sectors
		G19	› Know the formula for: Pythagoras' theorem, › a2 + b2 = c2 and the trigonometric ratios for › sin θ = opposite/hypotenuse › cos θ = adjacent/hypotenuse and › tan θ = opposite/adjacent › Apply them to find lengths and angles in right-angled triangles in two-dimensional figures			**12 Constructions and Pythagoras** 12a Pythagoras' theorem 12b Applications of Pythagoras' theorem 14c Trigonometry 1 14d Trigonometry 2
			Extension content: › Including 3D figures			**14 3D shapes and trigonometry** 14b 3D geometry

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
GEOMETRY AND MEASURES	MENSURATION AND CALCULATION	G20	**Extension content:** › Know and apply the sine rule, a/sinA = b/sinB = c/sinC › And cosine rule, a2 = b2 + c2 – 2bccosA › To find unknown lengths and angles › Know and apply Area = 1/2 absinC › To calculate the area, sides or angles of any triangle	No prior teaching needed at this level before OxfordAQA International GCSE study.		
	TRANSFORMATIONS, MATRICES AND VECTORS	G21	› Describe and transform 2D shapes using single rotations, reflections, translations, or enlargements by a positive scale factor and distinguish properties that are preserved under particular transformations	**9 Transformations and symmetry** 9a Reflection 9b Rotation 9d Translation 9e Enlargement	**9 Transformations and symmetry** 9a Transformations 9d Enlargements 1 9e Enlargements 2	**9 Transformations and scale** 9a Transformations 9b Enlargements 1 9c Enlargements 2
			Extension content: › Including combined transformations and enlargements by fractional and negative scale factors		**9 Transformations and symmetry** 9b Combinations of transformations 9e Enlargements 2	**9 Transformations and scale** 9a Transformations 9b Enlargements 1 9c Enlargements 2
		G22	**Extension content:** › Understand and use vector notation; calculate, and represent graphically the sum of two vectors, the difference of two vectors and a scalar multiple of a vector; understand and use the commutative and associative properties of vector addition; solve simple geometrical problems in 2D using vector methods			**9 Transformations and scale** 9a Transformations
		G23	**Extension content:** › Multiplications of matrices Notes: Multiplying a 2 × 2 matrix by a 2 × 2 matrix or by a 2 × 1 matrix, multiplication by a scalar.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G24	**Extension content:** › The identity matrix, I Notes: 2 × 2 only.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G25	**Extension content:** › Transformations of the unit square in the x – y plane Notes: Representation by a 2 × 2 matrix transformations restricted to rotations of 90°, 180° or 270° about the origin, reflections in a line through the origin (ie x = 0, y = 0, y = x, y = –x) and enlargements centred on the origin.	No prior teaching needed at this level before OxfordAQA International GCSE study.		
		G26	**Extension content:** › Combination of transformations Notes: Using matrix multiplications use of i and j notation is not required.	No prior teaching needed at this level before OxfordAQA International GCSE study.		

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
STATISTICS AND PROBABILITY	PRESENTATION AND ANALYSIS	S1	› Understand and use qualitative, discrete and continuous data, including grouped and ungrouped data	**8 Statistics** 8a Types of data and averages 8h Grouping data	**8 Statistics** 8c Frequency tables 8e Averages 1	**8 Statistics** 8c Frequency diagrams 8e The mean 8g Cumulative frequency 8h Interpreting data 8i Comparing distributions
		S2	› Extract data from printed tables and lists	**8 Statistics** 8a Types of data and averages 8b The mean 8c Frequency tables 8h Grouping data 8i Comparing data	**8 Statistics** 8c Frequency tables 8e Averages 1 8f Averages 2 8g Interpreting statistical diagrams 8i Comparing distributions	**8 Statistics** 8c Frequency diagrams 8d Movng averages 8e The mean
		S3	› Design and use two-way tables for grouped and ungrouped data	**8 Statistics** 8d Bar charts 8f Collecting data	**8 Statistics** 8c Frequency tables 8g Interpreting statisitcal diagrams 8h Scatter diagrams and correlations 8i Comparing distributions	**8 Statistics** 8e The mean 8h Interpreting data 8i Comparing distributions
		S4	› Produce charts and diagrams for various data types; scatter graphs, stem-and-leaf, tally charts, pictograms, bar charts, dual and composite bar charts, pie charts, line graphs, frequency polygons, histograms with equal class intervals	**6 Graphs** 6f Line graphs for time series **8 Statistics** 8c Frequency tables 8d Bar charts 8e Pie charts 8h Grouping data	**6 Graphs** 6g Time series **8 Statistics** 8d Constructing diagrams 8g Interpreting statistical diagrams 8h Scatter diagrams and correlation	**8 Statistics** 8c Frequency diagrams 8d Moving averages 8f Correlations 8h Interpreting data 8i Comparing distributions
			Extension content: › Histograms with unequal class intervals, cumulative frequency diagrams, box plots			**8 Statistics** 8g Cumulative frequency 8j Box plots
		S5	› Calculate median, mean, range, mode and modal class	**8 Statistics** 8a Types of data and averages 8b The mean 8c Frequency tables 8d Bar charts 8h Grouping data 8i Comparing data	**8 Statistics** 8c Frequency tables 8d Constructing diagrams 8e Averages 1 8f Averages 2 8g Interpreting statistical diagrams 8i Comparing distributions	**8 Statistics** 8c Frequency diagrams 8d Moving averages 8e The mean 8g Cumulative frequency 8i Comparing distributions 8j Box plots
			Extension content: › Quartiles and inter-quartile range and percentiles			**8 Statistics** 8g Cumulative frequency 8j Box plots

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
GEOMETRY AND MEASURES	INTERPRETATION	S6	› Read and interpret a wide range of graphs and diagrams and draw conclusions	**6 Graphs** 6f Line graphs for time series **8 Statistics** 8c Frequency tables 8d Bar charts 8e Pie charts 8i Comparing data	**8 Statistics** 8g Interpreting statistical diagrams 8h Scatter diagrams and correlation	**6 Graphs** 6i Time series **8 Statistics** 8f Correlation 8g Cumulative frequency 8i Comparing distributions 8j Box plots
		S7	› Compare distributions and make inferences	**8 Statistics** 8i Comparing data	**8 Statistics** 8c Frequency tables 8d Constructing diagrams 8g Interpreting statistical diagrams 8h Scatter diagrams and correlation 8i Comparing distributions	**8 Statistics** 8h Interpreting data 8i Comparing distributions 8j Box plots
		S8	› Recognise correlation and draw and/or use lines of best fit by eye, understanding what these represent Notes: Students should know and understand the terms: positive correlation, negative correlation, no correlation, weak correlation and strong correlation.		**8 Statistics** 8h Scatter graphs and correlation	**8 Statistics** 8f Correlation
	PROBABILITY	S9	› Understand and use the vocabulary of probability and the probability scale	**16 Probability** 16a The probability scale 16b More probability 16c Theoretical probability 16d Experimental probability	**16 Probability**	**16 Probability**
		S10	› Understand and use estimates or measures of probability from theoretical models (including equally likely outcomes), or from relative frequency understand and use expected frequency	**16 Probability** 16a The probability scale 16b More probability 16c Theoretical probability 16d Experimental probability	**16 Probability** 16a Two or more events 16b Tree diagrams 16c Mutually exclusive outcomes 16d Experimental probability	**16 Probability** 16b Independent events 16c Tree diagrams 16d Probability of combined events 16e Experimental probability 16f Simulations
		S11	› Compare experimental data and theoretical probabilities	**16 Probability** 16c Theoretical probability 16d Experimental probability	**16 Probability** 16d Experimental probability 16e Comparing experimental and theoretical and probability 16f Simulating experimental data	**16 Probability** 16e Experimental probability 16f Simulations
		S12	› Understand that if an experiment is repeated, this may – and usually will – result in different outcomes	**16 Probability** 16d Experimental probability	**16 Probability** 16d Experimental probability 16e Comparing experimental and theoretical and probability 16f Simulating experimental data	

Mapping of MyMaths for Key Stage 3: Foundation (Tier C) to OxfordAQA International GCSE Mathematics (9260)

OxfordAQA International GCSE Mathematics (9260)				Mapping of content from MyMaths for Key Stage 3		
Topic area	Subtopic area	Specification objective code	Specification objective	1C (ages 11–12) chapters and sections	2C (ages 12–13) chapters and sections	3C (ages 13–14) chapters and sections
GEOMETRY AND MEASURES	PROBABILITY	S13	› Understand that increasing sample size generally leads to better estimates of probability and population characteristics	**16 Probability** 16d Experimental probability	**16 Probability** 16d Experimental probability 16e Comparing experimental and theoretical and probability	
		S14	› Understand and use sample spaces for situations where outcomes are single events and for situations where outcomes are two successive events		**16 Probability** 16a Two or more events 16b Tree diagrams 16c Mutually exclusive outcomes	
		S15	› Identify different mutually exclusive and exhaustive outcomes and know that the sum of the probabilities of all these outcomes is 1 › Know and use that for mutually exclusive events A and B P(A U B) = P(A) + P(B)		**16 Probability** 16c Mutually exclusive outcomes	**16 Probability** 16d Probability of combined events
		S16	› Understand and use Venn diagrams to work out probabilities	**16 Probability** 16e Sets	**16 Probability** 16g Venn diagrams and probability	**16 Probability** 16g Venn diagrams
		S17	**Extension content:** › Calculate the probability of independent combined events, including using tree diagrams and other representations › Know and use that for independent events A and B P(A U B) = P(A) × P(B)		**16 Probability** 16b Tree diagrams	**16 Probability** 16b Independent events 16c Tree diagrams 16d Probability of combined events 16e Experimental probability
		S18	**Extension content:** › Calculate conditional probabilities including using tree diagrams and other representations		**16 Probability** 16b Tree diagrams	**16 Probability** 16c Tree diagrams 16d Probability of combined events 16e Experimental probability

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MyMaths for Key Stage 3

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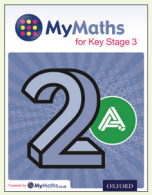
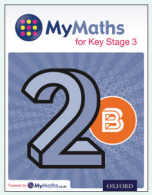
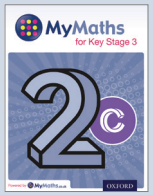
Phase 2 (age 12–13)	 Student Book 978 019 830456 2 Teacher Companion 978 019 830459 3	 Student Book 978 019 830457 9 Teacher Companion 978 019 830460 9	 Student Book 978 019 830458 6 Teacher Companion 978 019 830461 6
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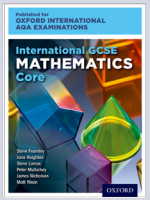
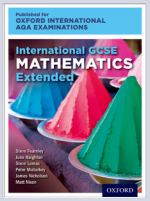
 Print Textbook 978 019 837586 9 Online Textbook 978 019 840997 7 Print & Online Textbook Pack 978 019 840996 0	 Print Textbook 978 019 837587 6 Online Textbook 978 019 841113 0 Print & Online Textbook Pack 978 019 841112 3

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