

MATHSWATCH COVERS EVERY TOPIC ON THE GCSE (Double Award) SYLLABUS

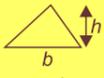
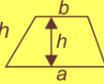
Grades that will be examined: Grades that can be obtained:

Higher	G F E D C B A A*	Higher	D C B A A*
Foundation	G F E D C	Foundation	G F E D C

Unit 1

Financial Mathematics and Other Applications of Numeracy

Calculator allowed...30% of qualification

Grade G	Grade E
Integers and Even/Odd Numbers 1	Rounding to Decimal Places 29
Place Value 2	Half-Way Values 30
Rounding to the Nearest 10, 100, 1000 . . 3	Powers/Indices - Introduction 31
Ordering Integers 4	Working With Fractions 32
Names of Angles 6	Percentages - Introduction 33
Polygons 7	Multiply and Divide (Decimals) 34
Reading Scales 8	BODMAS/BIDMAS 35
Tally Charts and Bar Charts 10	Algebraic Simplification (Add/Subtract) . 37
Pictograms 11	Measuring and Drawing Angles 40
Grade F	Perimeters 42
Fractions - Introduction 15	Area of a Rectangle 43
Inverse Operations 16	Circle Definitions 44
Add and Subtract (Integers and Decimals) . 17	Area of a triangle = $\frac{b \times h}{2}$ 
Multiply and Divide (Integers) 18	Area of trapezium = $\frac{1}{2}(a + b)h$ 
Multiply and Divide by Powers of 10 19	Prime Numbers
Negatives in Real Life 20	2, 3, 5, 7, 11, 13, 17, 19, 23, 29, . . .
Interpreting Real-Life Tables 21	Each prime number has exactly two factors.
Algebraic Conventions - Introduction . . . 22	
Simple Geometric Definitions 24	
Properties of Solids 25	
Vertical Line Charts 28	

Grade D	
Rounding to Significant Figures . . . 49a/b/d	Tangents, Arcs, Sectors and Segments . 72
Squares, Cubes and Roots 50	Angles on a Line and at a Point 74
Product of Primes 52	Angles and Parallel Lines 75
Decimals and Fractions 53	Angles in a Triangle 76
Fractions, Percentages, Decimals 54	Unit Conversions 78
Percentage of an Amount 55a	Area of a Triangle 79
Change to a Percentage 56a	Area of a Parallelogram 80
Four Rules of Negatives 57	Area of a Trapezium 81
Four Rules of Fractions 58	Surface Area of a Cuboid 82
Calculator Questions 59	Volume of a Cuboid 83
Ratio 60	Questionnaires 89
Direct Proportion - Introduction 61	Time Series 90
Money Questions 62b/c	
Algebraic Simplification (Multiply/Divide) . 63	
Expanding Brackets 64	
Substitution 66	
Solving Equations - Introduction 67	
Straight Line Graphs - Drawing 70	
Distance-Time Graphs 71	
Addition/Subtraction	Multiplication/Division
(++) becomes + eg. 5 - (-3) = 5 + 3	(+) x (+) becomes + eg. (-5) x (-3) = 15
(--) becomes +	(-) x (-) becomes +
(+-) becomes - eg. 5 + (-3) = 5 - 3	(+) x (-) becomes -
(-+) becomes -	(-) x (+) becomes - eg. (-5) x 3 = -15

Grade C	
Error Intervals 96	Geometric Properties of Quadrilaterals 124
Inverse Proportion 99	Compound Measures 126a
Sharing Using Ratio 100	Area of a Circle 127
Ratios, Fractions and Graphs 101	Circumference of a Circle 128
Exchanging Money 102	Surface Area of a Prism 129
Percentage Change 103	Volume of a Prism 130
Increase/Decrease by a Percentage . . . 104	Bearings 134
Interest and Depreciation 105	Venn Diagrams 135
Expanding and Simplifying Brackets . 107a	Sampling Populations 136
Solving Equations - Advanced 108	Pie Charts 137
Rearranging Simple Formulae 109	
Forming Formulae and Equations 110	
Area of a circle = πr^2 	
Circumference of a circle = $2\pi r$	

Grade B	Grade A/A*
Negative Indices 141	Real-Life Finance - Introduction 168
Standard Form 142	Upper and Lower Bounds 169
Bounds - Introduction 143	
Reverse Percentage Problems 144	
Compound Interest - Advanced 145	
Identities 147	
Sampling Methods 163	Spheres 180
	Pyramids 181
	Cones and Frustums 182