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

Grades that will be examined:

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

Grades that can be obtained:

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

Unit 2

Non-calculator paper

Calculator not allowed...30% of qualification

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Grade G

Integers and Even/Odd Numbers 1
Place Value 2
Rounding to the Nearest 10, 100, 1000 . . 3
Ordering Integers 4
Mathematical Notation - Introduction 5
Names of Angles 6
Polygons 7
The Probability Scale 12

Grade F

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Ordering Decimals 14
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Multiply and Divide (Integers) 18
Multiply and Divide by Powers of 10 19
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Interpreting Real-Life Tables 21a
Algebraic Conventions - Introduction . . . 22
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Simple Geometric Definitions 24
Properties of Solids 25
Symmetries 26

Grade E

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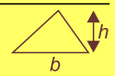
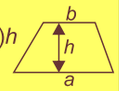
Generating a Sequence - Term to Term . 38
Circle Definitions 44
Calculating Probabilities 45
Possibility Spaces 46
Listing Outcomes 47
Two-Way Tables 48

Area of a triangle = $\frac{b \times h}{2}$



Area of trapezium = $\frac{1}{2}(a + b)h$



Prime Numbers

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, . . .

Each prime number has exactly two factors.

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Grade D

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Working with Indices 51
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Angles in a Quadrilateral 77
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Midpoint of a Line on a Graph 84
Reflections 85
Rotations 86
Translations 87
Enlargements 88
Experimental Probabilities 94
Mutually Exclusive Events 95

Addition/Subtraction

(+ +) becomes +
(– –) becomes +
(+ –) becomes –
(– +) becomes –

eg. 5 – (-3) = 5 + 3

eg. 5 + (-3) = 5 – 3

Multiplication/Division

(+) × (+) becomes +
(–) × (–) becomes +
(+) × (–) becomes –
(–) × (+) becomes –

eg. (-5) × (-3) = 15

eg. (-5) × 3 = -15

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Grade C

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Tree Diagrams - Introduction 140

The Laws of Indices

$x^a \times x^b = x^{a+b}$

$x^a \div x^b = x^{a-b}$

$(x^a)^b = x^{ab}$

$x^{-a} = \frac{1}{x^a}$

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Fractional Indices

$x^{\frac{a}{b}} = \left(\sqrt[b]{x}\right)^a$

Grade A/A*

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