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MATHSWATCH COVERS EVERY TOPIC ON THE IGCSE SYLLABUS

Grades that will be examined:

Higher	1	2	3	4	5	6	7	8	9
Foundation	1	2	3	4	5				

Grades that can be obtained:

Higher			3	4	5	6	7	8	9
Foundation	1	2	3	4	5				

The Maths Grade 1 to 9 syllabus is split into 4 areas and 232 videos.

Number - 80 videos
Algebra - 67 videos
Geometry and Measures - 60 videos
Probability and Statistics - 25 videos

How long will it take to revise?

The timings of our videos are:

0 to 5 mins . . . . 89 videos
5 to 10 mins . . . . 106 videos
10 to 15 mins . . . . 29 videos
15 to 20 mins . . . . 8 videos

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Grade 1

Place Value 1
Ordering Integers 2
Ordering Decimals 3
Reading Scales 4
Simple Mathematical Notation 5
Interpreting Real-Life Tables 6
Introduction to Algebraic Conventions . . . 7
Coordinates 8
Simple Geometric Definitions 9
Polygons 10
Symmetries 11
Congruent Shapes 12
Names of Angles 13
The Probability Scale 14
Tally Charts and Bar Charts 15
Pictograms 16

Grade 2

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Subtracting Integers and Decimals 18
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Dividing Integers 20
Inverse Operations 21
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Calculating Probabilities 52
Mutually Exclusive Events 53
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Prime Numbers

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

Each prime number has exactly two factors.

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Grade 3

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Properties of Special Triangles 93
Angles and Parallel Lines 94
Angle Sum of Polygons 95
Two-Way Tables 96
Averages and the Range 97
Experimental Probabilities 98
Possibility Spaces 99

Addition/Subtraction

(+ +) becomes +
(– –) becomes +
eg. 5 – (-3) = 5 + 3

(+ –) becomes –
(– +) becomes –
eg. 5 + (-3) = 5 – 3

Multiplication/Division

(+) × (+) becomes +
(–) × (–) becomes +
eg. (-5) × (-3) = 15

(+) × (–) becomes –
(–) × (+) becomes –
eg. (-5) × 3 = -15

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Grade 4

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The Laws of Indices

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

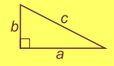
$x^a \div x^b = x^{a-b}$

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

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

Pythagoras

$a^2 + b^2 = c^2$



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Fractional Indices

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

Quadratic Formula

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Surds

$\sqrt{a} \times \sqrt{a} = a$

$\sqrt{a \times b} = \sqrt{a} \times \sqrt{b}$

$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$