

$\cos \frac{\theta}{2} = \pm \sqrt{\frac{1 + \cos \theta}{2}}$

**Year 13**

$f(x) = \int_0^x f'(t) dt$

- 1 – Trigonometry & Statistics
- 2 - Mock exam
- 3 – Calculus & Modelling



**Year 12**

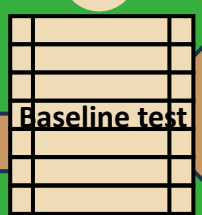
$\ln x = \log_e x$

- 4 – Mechanics
- 3 – Calculus
- 2 – Statistics
- 1 – Algebra & Trigonometry

**Year 11**

$x+5$   
 $x-2$   
 $x-3$

$3 - 2x$

- 2 – Geometry & Proportion
- 3 – Data & Number
- 1 – Graphs & Algebra
- 2 – Reasoning & Communication

**Year 10**

20	50
10	25

$65^\circ$   $65^\circ$   $75^\circ$   $75^\circ$

**Year 9**

Input  $\rightarrow$   $\times 2$   $\rightarrow$   $-1$   $\rightarrow$  Output

- 1 – Similarity & Algebra
- 3 – Proportion & Representations
- 2 – Number & Geometry
- 1 – Algebra & Construction
- 3 – Geometry & Data

**Year 7**

Input  $\rightarrow$   $\times 2$   $\rightarrow$   $+5$   $\rightarrow$  Output

**Year 8**

Area =  $\frac{1}{2} \times \text{base} \times \text{height}$

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- 1 – Algebra & Place value
- 2 – Number & Fractions
- 3 – Lines & Angles
- 1 – Proportion & Representations
- 2 – Algebra & Number

RAWL Exam / A- Level unit test  
 End of year / GCSE's / A- Levels