

Mathematics

Websites to access:



Hegarty Maths



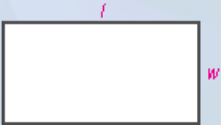
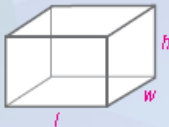


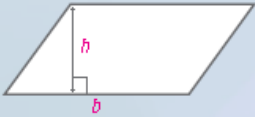
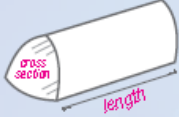
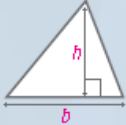

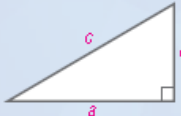
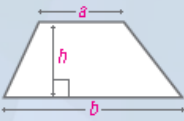
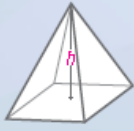
PiXL Maths (+ App)



St Clements High School - Maths

Formulae to Memorise

You will not be given these formulae in the exam

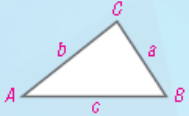
Areas	Volumes	Circumference and Area of a Circle	Trigonometry
 <p>Area of a rectangle = $l \times w$</p>	 <p>Volume of a cuboid = $l \times w \times h$</p>	 <p>Circumference of a circle = $2\pi r = \pi d$ Area of a circle = πr^2</p>	 <p>$\sin x = \frac{\text{opp}}{\text{hyp}}$, $\cos x = \frac{\text{adj}}{\text{hyp}}$, $\tan x = \frac{\text{opp}}{\text{adj}}$</p>
 <p>Area of a parallelogram = $b \times h$</p>	 <p>Volume of a prism = area of cross section \times length</p>	Pythagoras' Theorem	Compound Interest
 <p>Area of a triangle = $\frac{1}{2} b \times h$</p>	 <p>Volume of a cylinder = $\pi r^2 h$</p>	 <p>$a^2 + b^2 = c^2$</p>	<p>Where P is the principal amount, r is the interest rate (as a percentage) over a given period and n is the number of times that the interest is compounded:</p> <p>Total accrued = $P \left(1 + \frac{r}{100}\right)^n$</p>
 <p>Area of a trapezium = $\frac{1}{2}(a + b) h$</p>	 <p>Volume of a pyramid = $\frac{1}{3} \times$ area of base \times height</p>	Compound Measures	Probability
		<p>speed = $\frac{\text{distance}}{\text{time}}$</p> <p>density = $\frac{\text{mass}}{\text{volume}}$</p> <p>pressure = $\frac{\text{force}}{\text{area}}$</p>	<p>Where $P(A)$ is the probability of outcome A and $P(B)$ is the probability of outcome B:</p> <p>$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$</p>

Higher Only

Probability

Conditional Probability
 $P(A \text{ and } B) = P(A \text{ given } B) \times P(B)$

Trigonometry



Sine Rule $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

Cosine Rule $a^2 = b^2 + c^2 - 2bc \cos A$

Area of a triangle = $\frac{1}{2} ab \sin C$

Get Help Revising!

Tuesday Lesson 6 – Topics Room & Free Revision Room

Thursday Lesson 7 – Topics Room & Free Revision Room

See Digital Sign Board for Topics Covered each week

Do you have all your exam equipment?

You will need: Scientific Calculator, Ruler, Protractor, Compasses,

Pencils, Pens, Eraser, pencil Sharpener, Clear Pencil Case