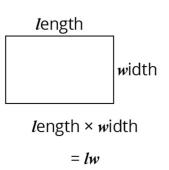
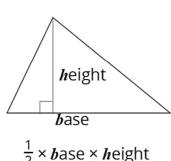
# GCSE Maths Formulae (Foundation)

## Area of a Rectangle

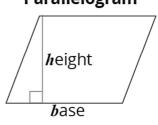


# Area of a Triangle



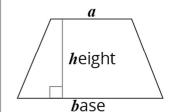
$$\frac{1}{2} \times \mathbf{b}$$
 ase  $\times \mathbf{h}$  eight 
$$= \frac{1}{2} \mathbf{b} \mathbf{h}$$

## Area of a Parallelogram



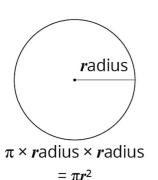
$$b$$
ase ×  $h$ eight =  $bh$ 

# Area of a Trapezium

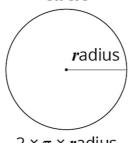


$$\frac{1}{2} \times (a+b) \times h \text{ eight}$$
$$= \frac{1}{2}(a+b)h$$

## Area of a Circle

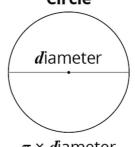


# Circumference of a Circle



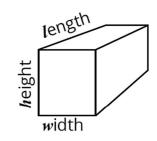
$$2 \times \pi \times r$$
adius  
=  $2\pi r$ 

# Circumference of a Circle



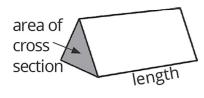
 $\pi \times d$ iameter =  $\pi d$ 

## Volume of a Cuboid



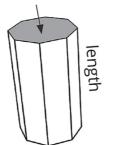
*l*ength×width×height = lwh

#### **Volume of a Prism**

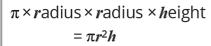


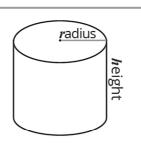
area of cross section × length

#### area of cross section

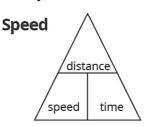


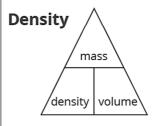
## Volume of a Cylinder

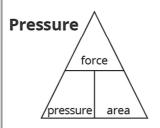




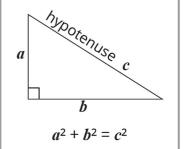
## **Compound Measures:**







## **Pythagoras' Theorem**

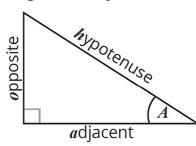


## **Compound Interest**

Principle amount interest rate
number of times the interest is compounded

Value of Investment =  $P(1 + \frac{r}{100})^n$ 

# **Trigonometry Formulae**



$$Sin A = \frac{opposite}{hypotenuse}$$

$$\cos A = \frac{a \text{djacent}}{h \text{ypotenuse}}$$

Tan 
$$A = \frac{opposite}{adjacent}$$

$$\operatorname{Sin} A = \frac{o}{h}$$
,  $\operatorname{Cos} A = \frac{a}{h}$ ,  $\operatorname{Tan} A = \frac{o}{a}$ 

# Values of Trigonometric Functions

values of frigorioffied it functions					
	0°	30°	45°	60°	90°
$\sin \theta$	0	1/2	<u>1</u> √2	<u>√3</u> 2	1
$\cos \theta$	1	<u>√3</u> 2	<u>1</u> √2	1/2	0
tan heta	0	<u>1</u> √3	1	√3	not defined