

# Keywords: Spring 2

## Year 9 Maths

### Class 9-6 and 9-7

**Topic Title:**

**Geometry – Circles**  
**Geometry – Pythagoras**  
**Geometry – Trigonometry 9-7 only**

Keyword	Definition
Significant Figures	The first set of digits in a number that are non zero, e.g. the 3 <sup>rd</sup> significant figure of 0.0020789 is 7
Diameter/radius	The distance across a circle that goes through the centre/half of the diameter
Perimeter of a circle (Circumference)	$Circumference = \pi \times D$
Arc length	The circular distance around a sector
Sector	A slice of a circle (The sides must be the radius)
Area of circle	$Area = \pi r^2$
Pythagoras's Theorem	The sides labelled a, b and c of a right angle triangle satisfy the given equation $a^2 + b^2 = c^2$
Side labelled 'a or b' on a right angled triangle	Either one of the sides that is NOT the longest side
Side labelled 'c' on a right angled triangle	Opposite the right angle or the longest side
Hypotenuse	Longest side or opposite the right angle
Adjacent	Adjacent side to the angle you are using
Opposite	Opposite the angle you are using
SOH CAH TOA	$\sin(\theta) = \frac{o}{h}$ $\cos(\theta) = \frac{a}{h}$ $\tan(\theta) = \frac{o}{a}$