

GCSE UNIT SUMMARY: UNIT 17: Perimeter, area and volume 2: circles, cylinders, cones and spheres

Unit Description	Taught	Revision Priority
Recall the definition of a circle and identify, name and draw parts of a circle including tangent, chord and segment;		
Recall and use formulae for the circumference of a circle and the area enclosed by a circle circumference of a circle = $2\pi r = \pi d$, area of a circle = πr^2 ;		
Use $\pi \approx 3.142$ or use the π button on a calculator;		
Give an answer to a question involving the circumference or area of a circle in terms of π ;		
Find radius or diameter, given area or perimeter of a circles;		
Find the perimeters and areas of semicircles and quarter-circles;		
Calculate perimeters and areas of composite shapes made from circles and parts of circles;		
Calculate arc lengths, angles and areas of sectors of circles;		
Find the surface area and volume of a cylinder;		
Find the surface area and volume of spheres, pyramids, cones and composite solids;		
Round answers to a given degree of accuracy.		