

Year 11 Foundation Tier Maths		
What concepts will we be covering this half term?		What resources can you use to support your learning?
Unit 17: Perimeter, Area, Volume 2		Resources
17.1 Circumference of a circle 1	Calculate the circumference of a circle. Solve problems involving the circumference of a circle.	Oak Academy Circles Corbett Maths 60 Circumference
17.2 Circumference of a circle 2	Calculate the circumference and radius of a circle. Work out percentage error intervals.	
17.3 Area of a circle	Work out the area of a circle. Work out the radius or diameter of a circle. Solve problems involving the area of a circle. Give answers in terms of π .	Corbett Maths 40, 59 Area of Circles
17.4 Semicircles and sectors	Understand and use maths language for circles and perimeters. Work out areas of semicircles and quarter circle and perimeters. Solve problems involving sectors of circles.	Oak Academy Parts of Circles 1 Corbett Maths 62 Perimeter Semi-Circle Corbett Maths 47 Area Semi-Circle
17.5 Composite 2D shapes and cylinders	Solve problems involving areas and perimeters of 2D shapes. Work out the volume and surface area of cylinders.	Oak Academy Area and Perimeter Corbett Maths 315 Surface Area Cylinders Corbett Maths 357 Volume Cylinder
17.6 Pyramids and cones	Work out the volume of a pyramid. Work out the surface area of a pyramid. Work out the volume of a cone. Work out the surface area of a cone.	Corbett Maths 359 Volume of a cone Corbett Maths 360 Volume of a pyramid Corbett Maths 314 Surface Area Cone
17.7 Spheres and composite solids	Work out the volume of a sphere. Work out the surface area of a sphere. Work out the volume and surface area of composite solids.	Corbett Maths 313 Surface Area Spheres Corbett Maths 361 Volume Sphere Oak Academy Volume & Surface Area 1 & 2

Unit 15: Equations and Graphs		Resources
20.1 Graphs of cubic and reciprocal functions	Draw and interpret graphs of cubic functions. Draw and interpret graphs of $y = 1/x$.	Corbett Maths 344 Cubics Corbett Maths 346 Reciprocal Graphs
20.2 Non-linear graphs	Draw and interpret non-linear graphs to solve problems.	Oak Academy Cubic and Reciprocal Graphs
20.3 Solving simultaneous equations graphically	Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations.	Corbett Maths Simultaneous Equations (Graphs) Oak Academy Simultaneous Equations
20.4 Solving simultaneous equations algebraically	Solve simultaneous equations algebraically.	Corbett Maths 295 Simultaneous Equations
20.5 Rearranging formulae	Change the subject of a formula.	Corbett Maths 7 Changing the subject of a formula Oak Academy Substitution rearranging formulae
20.6 Proof	Identify expressions, equations, formulae and identities. Prove results using algebra.	

Tasks to complete so we can assess your understanding/ Key Performance Indicator tasks

Complete MathsWatch homework assignments set by your maths teacher. <https://vle.mathswatch.co.uk/vle/>

What can you do if you need help/ support?

Email your maths teacher, or one of the maths department lead teachers:

Mrs J Cooke (Head of Department): JCooke@netherthorpe.derbyshire.sch.uk

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