



Longfield Learning Journey



Key Stage 3 Extend	Unit 11 – Year 8 Volume and Surface Area of Prisms and Cylinders	Term: 3.2		
Key Words:	Prerequisites	R	A	G
Volume, surface area, area, nets, prism, cuboid, cylinder, cube, face, edge.	Be able to calculate the volume of a cuboid.			
	Be able to draw the net of a cuboid.			
	Be able to calculate the area of a circle and triangle.			

	Content: Volume and Surface Area of Prisms and Cylinders	R	A	G
11.1 Views and Nets of Three dimensional (3D) Shapes	Visualise and draw sketches of three dimensional shapes from different views			
	Visualise and draw the nets of prisms and cylinders			
11.2 Volume and Total Surface Area of Prisms	Calculate the volume and surface area of prisms			
11.3 Volume and Total Surface Area of Cylinders	Calculate the volume and surface area of cylinders			
11.4 Volume and Surface Area of Composite Solids	Convert between cm^2 and m^2 , and between cm^3 and m^3			
	Solve problems involving volume and surface area of composite solids			

K <i>What you know</i>	W <i>What you want to know</i>	L <i>What have you learned</i>