

Progress Page: Year 9 Spring 1: Constructing in 2 and 3 Dimensions

Working Towards		Expected Standard		Reaching Greater Depth	
Topic	To achieve 'Expected Standard' you will be able to....	WT	ES	Sparx code	
Three Dimensional Shapes	Identifying and naming 2D and 3D shapes			M767	
	Recognising prisms			M767	
	Recognising and sketching nets of cuboids and other 3D shapes			M518	
	Drawing and identifying plans and elevations			M229	
	Calculating areas of 2D shapes			M269, M291, M610, M996, M705	
	Calculating surface area of cubes and cuboids			M534	
	Calculating surface area of triangular prisms			M661	
	Calculating surface area of a cylinder			-	
	Calculating volume of cubes and cuboids			M765	
	Calculating volume of prisms and cylinders			M722	
Constructions and Congruency	Draw and measure angles			M780	
	Construct and interpret scale drawings			M112	
	Locus of distance from a point			-	
	Locus of distance from a straight line/shape			-	
	Construct a perpendicular bisector			M253	
	Construct a perpendicular to/from a point			M253	
	Construct an angle bisector			M253	
	Construct triangles from given information			M565	
	To achieve 'Greater Depth' you will be able to...	GD			
3D Shapes	Draw accurate nets of cuboids and other 3D shapes			M518	
	Using formulae for volume of cones, pyramids and spheres			-	
& C	Locus of points equidistant from two points/lines			-	
	Identify congruent shapes			M124	

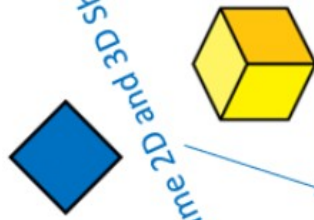


Y9 Spring 1: Constructing in 2D and 3D

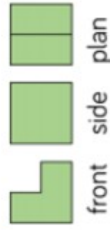


In this topic, you will be meeting 3D shapes for the first time! You will learn how to calculate area, perimeter and volume and how to apply these to real world problems. You will also learn how to use Mathematical Instruments to construct different shapes!

Draw a variety of views of 3D shapes



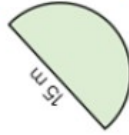
Name 2D and 3D Shapes



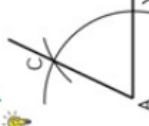
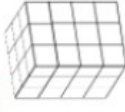
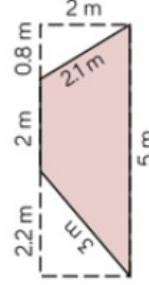
front side plan



Find the area of 2D shapes



Find the volume of cubes, cuboids and other 3D shapes



Constructing triangles using a compass and protractor

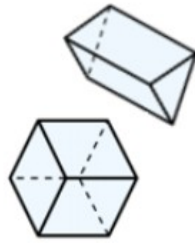
Assessment point: Constructions and congruency

Next Topic: Reasoning with algebra

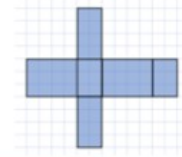
Constructing in 2 and 3 dimensions



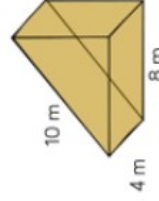
Recognise Prisms



Draw and Sketch nets of 3D shapes

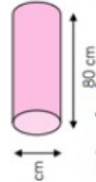


Find the surface area of Cubes and cuboids.



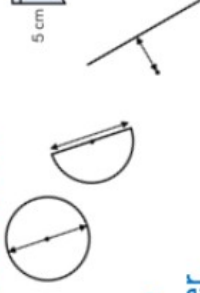
Find the surface area of triangular prisms

Assessment point: 3D shapes

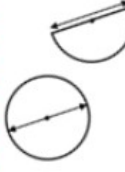


Find the surface area of a cylinder

Draw and measure angles



Drawing Loci



Explore congruency

