

Content Area	Strand	Year 7	Year 8	Year 9	Year 10	Year 11
Geometry and Measures	Perimeter	Solve perimeter problems	Circumference of a circle		Arc length	Review perimeter, area and volume formulae as a context for rearrangement
	Area	Areas of rectangles, parallelograms and triangles	Area of a circle	Surface area of cuboids, cylinders and prisms	Area of a sector	Surface area and volume of cylinders, cones and spheres
			Area of compound shapes			
		Area of trapezium	Revisit area of a trapezium			
	Volume			Volume of cuboids, cylinders and prisms		Volume of a pyramid
				Explore volume of cones, spheres and compound shapes		
	Notation	Geometric notation and parallel and perpendicular lines	Revise notation		Parts of a circle	Using correct language in 'show that'/proof questions
		Name and construct polygons			Revisit names and properties in teh context of enlargement	
	Constructions	Draw lines, angles and simple shapes	Standard ruler and compass constructions	Revisit ruler and compass constructions with loci		Plans and elevations and revisit loci
	Symmetry		Recognise line symmetry	Recognise rotational symmetry		
	Transformations		Perform reflections and work with scale factors	Perform rotations and translations and a series of transformations	Similarity and enlargement including negative scale factors	
	Properties	Properties of triangles and quadrilaterals	Explore diagonals of quadrilaterals and their angles	Properties of 3D shapes and testing conjectures about shapes		Revisit shape properties in the context of reasoning
	Angles	Angles at a point and on a straight line	Find and prove simple geometric facts	Chains of reasoning to find angles	Revisit proof with angle rules	
		Vertically opposite angles				
		Simple angle proofs				
		Angles in triangles and quadrilaterals				
		Angles in parallel lines	Revisit angles in parallel lines			
	Bearings				Interpret and use bearings and revisit Pythagoras and trig in this context	
	Pythagoras			Understand and use Pythagoras' theorem	Revise Pythagoras' theorem	Revisit Pythagoras and trigonometry
				Use Pythagoras' theorem in 3D shapes		
				Explore ratios in right-angled triangles and show that a triangle is right-angled		
	Trigonometry				Use trigonometry to find missing sides and angles in right-angled triangles	Revisit trigonometry in the context of functions
					Use sine, cosine and area rules	
				Exact trig values	Exploring trigonometric graphs and transformations of these	
Similarity and Congruence			Explore congruence	Prove shapes are similar or congruent	Revisit congruent triangle proofs	
Circle Theorems				Prove and sue the first four circle theorems	Prove and use the remaining circle theorems	
Vectors				Understand and use vectors		
				Geometric proof with vectors		