

MEASUREMENT AND GEOMETRY – YEAR 5

Units of Measurement	Shape	Location and Transformation	Geometric reasoning
<p>Choose appropriate units of measurement for length, area, volume, capacity and mass (108)</p> <p>M 1-1, 1-2, 1-9 M 3-5 M 6-5 M 12-6 M 13-1, 13-2, 13-3</p>	<p>Connect three-dimensional objects with their nets and other two-dimensional representations (111)</p> <p>G 13-7, 13-8, 13-9 G 15-4 G 16-5</p>	<p>Use a grid reference system to describe locations. Describe routes using landmarks and directional language (113)</p> <p>A 4-1</p>	<p>Estimate, measure and compare angles using degrees. Construct angles using a protractor (112)</p> <p>G 1-1, 1-2, 1-3, 1-4, 1-5</p>
<p>Calculate the perimeter and area of rectangles using familiar metric units (109)</p> <p>M 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7</p>		<p>Describe translations, reflections and rotations of two-dimensional shapes. Identify line and rotational symmetries (114)</p> <p>G Chapter 5 G Chapter 7 A 1-5</p>	
<p>Compare 12- and 24-hour time systems and convert between them (110)</p> <p>M 6-7</p>		<p>Apply the enlargement transformation to familiar two dimensional shapes and explore the properties of the resulting image compared with the original (115)</p> <p>G Chapter 12</p>	

MEASUREMENT AND GEOMETRY – YEAR 6

Units of Measurement	Shape	Location and Transformation	Geometric reasoning
Connect decimal representations to the metric system (135) M 1-2 N 2-4	Construct simple prisms and pyramids (ACMMG140) M 12-3, 12-6 G 15-2, G 16-2	Investigate combinations of translations, reflections and rotations, with and without the use of digital technologies (142) G 5-5 G 5-7	Investigate, with and without digital technologies, angles on a straight line, angles at a point and vertically opposite angles. Use results to find unknown angles (141) G 1-5, 1-6, 1-7 G 9-2
Convert between common metric units of length, mass and capacity (136) M 1-2 M 13-3, 13-4, 13-5 M 13-7, 13-6, 13-9		Introduce the Cartesian coordinate system using all four quadrants (143) A 4-2, 4-3, 4-4	
Solve problems involving the comparison of lengths and areas using appropriate units (137) M 1-3 M4-2			
Connect volume and capacity and their units of measurement (138) M 13-3, 13-4 M 13-7			
Interpret and use timetables (139) M 6-9			

MEASUREMENT AND GEOMETRY – YEAR 7

Units of Measurement	Shape	Location and Transformation	Geometric reasoning
Establish the formulas for areas of rectangles, triangles and parallelograms and use these in problem solving (159) M Chapter 4 M Chapter 5 M Chapter 8	Draw different views of prisms and solids formed from combinations of prisms (161) M 12-4 G 15-1	Describe translations, reflections in an axis, and rotations of multiples of 90° on the Cartesian plane using coordinates. Identify line and rotational symmetries (181) G 5-5, 5-6	
Calculate volumes of rectangular prisms (160) M 12-6			Investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning (164) G 1-11, 1-12, 1-13 G 9-2
			Classify triangles according to their side and angle properties and describe quadrilaterals (165) G 2-1 G 2-4, 2-5, 2-6 G Chapter 8 M 5-1, 5-2, 5-3
			Demonstrate that the angle sum of a triangle is 180° and use this to find the angle sum of a quadrilateral (166) G 2-2, 2-3 G 4-4 G 9-3

MEASUREMENT AND GEOMETRY – YEAR 8

Units of Measurement	Shape	Location and Transformation	Geometric reasoning
Choose appropriate units of measurement for area and volume and convert from one unit to another (195) M 3-5, 3-8 M 12-9, 12-10, 12-11, 12-13			Define congruence of plane shapes using transformations (200) G 11-1, 11-2, 11-3, 11-4, 11-5
Find perimeters and areas of parallelograms, rhombuses and kites (196) M Chapter 8			Develop the conditions for congruence of triangles (201) G 11-5 M Chapter 5
Investigate the relationship between features of circles such as circumference, area, radius and diameter. Use formulas to solve problems involving circumference and area (197) M Chapter 3 M Chapter 9 M Chapter 10			Establish properties of quadrilaterals using congruent triangles and angle properties, and solve related numerical problems using reasoning (202) M Chapter 8 M 9-5 (Also see G Chapter 10)
Develop the formulas for volumes of rectangular and triangular prisms and prisms in general. Use formulas to solve problems involving volume (198) M Chapter 12			
Solve problems involving duration, including using 12- and 24-hour time within a single time zone (199) M 6-8, 6-9, M 7-3, 7-4, 7-6, 7-7			