

NSW Mathematics K -10 Curriculum Objectives Addressed Within Numbers Up! 2 Baggin' the Dragon



Age	Level	NSW Level	Measurement	Space & Geometry
12-14	7-9	Stage 4	<p>MS4.1 Uses formulae and Pythagoras's theorem in calculating perimeter and area of circles and figures composed of rectangles and triangles.</p> <p>MS4.2 Calculates surface area of rectangular and triangular prisms and volume of right prisms and cylinders.</p> <p>MS4.3 Performs calculations of time that involve mixed units.</p>	<p>SGS4.1 Classifies polyhedra in terms of their properties.</p> <p>SGS4.2 Identifies and names angles formed by the intersection of straight lines, including those related to transversals on sets of parallel lines, and makes use of the relationships between them.</p> <p>SGS4.3 Classifies and determines the properties of quadrilaterals and triangles.</p> <p>SGS4.4 Identifies congruent and similar two dimensional figures stating the relevant conditions.</p>
15	10-11	Stage 5	<p>MS5.1.1 Uses formulae to calculate areas of quadrilaterals and finds areas and perimeters of simple composite figures.</p> <p>MS5.2.2 Applies formulae to find the surface area of right cylinders and volume of right pyramids, cones and spheres, and calculates the surface area and volume of composite solids.</p> <p>MS5.3.1 Applies formulae to find the surface area of pyramids, right cones and spheres.</p>	<p>SGS5.2.1 Applies results related to the angle sum of interior and exterior angles for any convex polygon.</p> <p>SGS5.2.2 Applies results for proving that triangles are similar or congruent.</p> <p>SGS5.3.2 Determines properties of triangles and quadrilaterals using deductive reasoning.</p> <p>SGS5.3.4 Applies deductive reasoning to prove circle theorems and to solve problems.</p>