

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. This is a developmental unit so is only available as ungraded.

Unit Title: Use of Number: Measure and Shape

Ungraded Unit Reference Number: UD23DEV04

Module: Developmental

Level: Two (2)

Credit Value: Three (3)

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand the properties of common 2D shapes and angles	1.1 Identify, and give the defining properties of, common geometric shapes, including: <ul style="list-style-type: none"> a) Quadrilaterals (square, rectangle, trapezium, parallelogram, kite and rhombus, internal angles) b) Triangles (right angled, equilateral, isosceles and scalene, internal angles) c) Circles (centre, radius, diameter, chord, sector, tangent, arc and segment)
2. Be able to solve problems involving common 2D shapes	2.1 Use practical methods to show whether a given shape will tessellate
	2.2 Solve problems involving reflection and rotational symmetry involving quadrilaterals and triangles
	2.3 Solve problems using the properties of angles at a point and angles at a point on a straight line
	2.4 Find the perimeters of quadrilaterals, triangles and circles
	2.5 Find the areas of quadrilaterals, triangles and circles

<p>3. Use basic trigonometric functions and Pythagoras' theorem</p>	<p>3.1 Use Pythagoras' theorem to solve everyday problems involving right angled triangles</p>
	<p>3.2 Use basic trigonometric functions (sin, cos, tan) to solve everyday problems involving non right-angled triangles</p>
<p>4. Be able to solve problems involving common 3D shapes</p>	<p>4.1 Identify the solids generated by rotation of common 2D shapes, including rectangles, triangles and circles</p>
	<p>4.2 Solve everyday problems involving volumes of common solids including cuboids, triangular prisms, cylinders and spheres</p>