

# Shape Angles: Maths : Year 4 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	Children will recap the names properties of a number of quadrilaterals, then explore ways in which compound shapes may be comprised of a number of different polygons, including triangles and quadrilaterals.	<ul style="list-style-type: none"> <li>Can children compare, describe and organise groups of quadrilaterals according to their properties?</li> <li>Can children compare, describe and organise groups of triangles according to their properties?</li> <li>Can children visualise and draw accurately composite shapes comprised of quadrilaterals, triangles and other shapes?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 1A/1B/1C</li> <li>2-D Shape Word Mat (FSD? activity only)</li> </ul>
<b>Lesson 2</b>	To identify acute and obtuse angles and compare and order up to two right angles by size.	Focussing on the angles inside shapes, children will explore the properties of a variety of polygons, then measure and label angles inside shapes (mainly acute, obtuse and right-angles, with one instance of a reflex angle inside a chevron).	<ul style="list-style-type: none"> <li>Can children children place shapes on a straight line to help work out if its angles are acute, or obtuse?</li> <li>Do children know that certain types of quadrilateral and triangle will always have specific types of angle?</li> <li>Can children identify acute and obtuse angles inside a variety of shapes?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 2A/2B/2C</li> <li>2-D Shapes Poster/Table Mat</li> <li>Angle Hunt Results (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To identify lines of symmetry in 2-D shapes presented in different orientations.	Children will identify vertical, horizontal and diagonal lines of symmetry inside shapes, using mirrors or tracing paper to check them. They will then draw compound shapes with one or more lines of symmetry.	<ul style="list-style-type: none"> <li>Do children understand that some shapes have more than one line of symmetry?</li> <li>Can children find and draw lines of symmetry on a range of shapes?</li> <li>Can children use mirrors and/or tracing paper to find and check lines of symmetry?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 3A/3B/3C</li> <li>Dictionaries</li> <li>Large sheets of paper or a roll of wallpaper (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To recognise lines of symmetry including those not dissecting shapes.	Children will explore ways in which shapes and patterns drawn on squared paper can be reflected vertically, horizontally or diagonal across mirror lines that are either bisecting, touching or not touching the shape or pattern to be reflected.	<ul style="list-style-type: none"> <li>Can children visualise reflections across horizontal, vertical and diagonal lines of symmetry?</li> <li>Can children count squares to work out reflections of shapes drawn on squared paper?</li> <li>Can children draw shapes and their reflections across lines of symmetry?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 4A/4B/4C</li> <li>Tangram Sheet (FSD? activity only)</li> <li>Masking tape (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To complete simple symmetrical figures with respect to specific lines of symmetry.	Children will explore ways in which more complex images, patterns and shapes can be reflected across one or two mirror lines, then create their own symmetrical patterns using a variety of resources.	<ul style="list-style-type: none"> <li>Can children recognise lines of symmetry including those not dissecting shapes?</li> <li>Can children draw symmetrical patterns?</li> <li>Can children complete symmetrical figures with more than one line of symmetry?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 5A/5B/5C</li> <li>Peg boards, Lego boards, rubber band boards, chequers boards etc. (FSD? activity only)</li> </ul>