

# Angles and Triangles

Maths

Year 5

Lesson 4 of 5

Learning Objective		Resources
To be able to identify and classify triangles.		Slides Worksheet 4A/4B/4C/4D Protractors
Teaching Input		
<ul style="list-style-type: none"> <li>Show children the equilateral triangle on the slides. What type of triangle is this? How big are each of the angles? How do you know? Children to think, pair, share their ideas, then check on the slides.</li> <li>Next, show the isosceles triangle. What is this triangle called? How would you describe it? Go through the information about isosceles triangles on the slides.</li> <li>Repeat for scalene triangles and right-angled triangles.</li> <li>Show children various triangles and ask them to identify which type of triangle they are and how they know, e.g. 'I know it is a scalene triangle because it has no equal sides and no equal angles.'</li> </ul>		
Main Activity		
<p><u>Lower ability:</u></p> <p>On worksheet 4A, children to identify the correct triangle by drawing a line from the name to the triangle.</p>	<p><u>Middle ability:</u></p> <p>On worksheet 4B, children to match the type of triangle to its description. When finished, children to calculate the missing angles in the scalene and isosceles triangles.</p>	<p><u>Higher ability:</u></p> <p>On worksheet 4C, children to define what each type of triangle is, then draw six scalene triangles and measure the angles. They must also use a protractor to draw a right-angle triangle and an isosceles triangle - <b>adult support may be required for this.</b></p>
Fancy something different...?		
<ul style="list-style-type: none"> <li>Take your children on a 'triangle hunt'. Walk around the school and school grounds looking for different types of triangle. Children to record the different types of triangle they can see on worksheet 4D, making sure they put the triangles in the correct section and label where they found each example.</li> <li>OPTIONAL: Use cameras to photograph the various triangles found, then produce a poster or a slideshow with the uploaded photographs grouped by triangle type.</li> <li>EXTEND: Provide protractors so that children can measure and record the angles of some of the triangles they find.</li> </ul>		
Plenary	Assessment Questions	
Go through the slides explaining Pythagoras' Theorem. Let's test if it is true! Challenge children to use the equation to find the missing side.	<ul style="list-style-type: none"> <li>Can children identify the four types of triangles by looking at their properties?</li> <li>Can children calculate missing angles in triangles?</li> <li>Can children draw triangles and measure the angles?</li> </ul>	