

Angles and Triangles

Maths

Year 5

Lesson 1 of 5

Learning Objective	Resources
To be able to estimate, draw and measure acute and obtuse angles.	Slides Worksheet 1A/1B/1C/1D Angle Cards Protractors Sticky notes (FSD? activity only)

Teaching Input

- What is an angle? What do you already know about angles? Children to think, pair, share their ideas, then go through the explanation on the slides.
- Tell children that they will be shown an angle and that they should try to guess its size, e.g. being shown 180° and then drawing that angle. Children to estimate each of the angles shown and draw on their whiteboards. Encourage children to think about what they know about angles to inform their estimates, e.g. a right angle is 90° .
- Next, show children the angles on the slides and ask them to guess what the angle is. Children to write the angles on their mini-whiteboards, then check on the slides. Make sure children use the degrees sign.
- What can we use to measure an angle if we are not sure of its size? Go through the information on the slides about protractors and how they are used.

Main Activity

Lower ability:	Middle ability:	Higher ability:
Provide children with a set of the Angle Cards. Challenge children to organise the cards into the correct section of the table on worksheet 1A to identify whether they are acute, obtuse, reflex or right angles. When finished, children could measure each of the angles as accurately as they can using a protractor.	On worksheet 1B, children are challenged to draw four acute, obtuse and reflex angles. They are then asked to measure each one and record the measurement next to each shape.	On worksheet 1C, children are challenged to draw a variety of angles between given dimensions (e.g. Can you draw an angle that's between 75° and 90° ?) Once children have completed each one, they then ask a friend to check if they have drawn each angle the correct size.

Fancy something different...?

- Tell children that today they will be going on an 'angle hunt' around the classroom. Provide children with a pad of sticky notes in pairs. Children to see how many angles they can spot, then label each example with a sticky note, labelling them either acute, obtuse or right angle.
- Children to then list as many of the examples as they can on worksheet 1D.

Plenary	Assessment Questions
Show children the pictures of acute angles in everyday life on the slides (e.g. pizza slice, roof, hangers.) Ask children to identify as many acute angles as they can. You could also type 'acute angles in everyday life' into a search engine to see what examples come up.	<ul style="list-style-type: none">• Can children draw and estimate angles?• Can children recognise acute and obtuse angles?• Can children use a protractor?