# Angles and Triangles: Maths : Year 5 : Autumn Term

**PlanBee**

| | Learning Objective | Overview | Assessment Questions | Resources |
|---|---|---|---|---|
| **Lesson 1** | To be able to estimate, draw and measure acute and obtuse angles. | Children will identify whether angles on a line or around a point are either acute, right, obtuse or reflex angles. They will then estimate the sizes of angles in degrees (°), then measure them. | • Can children draw and estimate angles?<br>• Can children recognise acute and obtuse angles?<br>• Can children use a protractor? | • Slides<br>• Worksheet 1A/1B/1C/1D<br>• Angle Cards<br>• Protractors<br>• Sticky notes (FSD? activity only) |
| **Lesson 2** | To be able to measure and calculate angles on a straight line and around a point. | Children will learn how many degrees are in a quarter, half, three-quarter and full turn. They will use this information to help them find one or more missing angles on a straight line or around a point. | • Do children know how many degrees there are in a quarter, half, three-quarter and full turn?<br>• Can children use their knowledge of angles to calculate missing angles on a line or around a point?<br>• Can children use a protractor to measure angles on a line or around a point? | • Slides<br>• Worksheet 2A/2B/2C<br>• Protractors<br>• Clock Angles 2 (FSD? activity only)<br>• Blank Clock Faces 2 (FSD? activity only) |
| **Lesson 3** | To use knowledge of properties to identify, draw and describe 2-D shapes. | Children will learn in certain properties of 2-D polygons, such as having parallel sides, or having equal opposite/adjacent pairs of inside angles. They will then either draw shapes accurately according to given properties, or sort shapes according to various properties. | • Can children draw shapes from simple properties?<br>• Can children draw shapes from more complex properties?<br>• Can children identify complex shape properties? | • Slides<br>• Challenge Cards 3A/3B/3C<br>• Protractors and rulers<br>• Shape Cards 3A/3B (FSD? activity only)<br>• Clue Cards (FSD? activity only) |
| **Lesson 4** | To be able to identify and classify triangles. | Children will explore the special properties of different triangles such as equilateral, isosceles and scalene triangles. They will use maths vocabulary to describe triangles, and sort triangles according to various properties. | • Can children identify the four types of triangles by looking at their properties?<br>• Can children calculate missing angles in triangles?<br>• Can children draw triangles and measure the angles? | • Slides<br>• Worksheet 4A/4B/4C/4D<br>• Protractors |
| **Lesson 5** | To identify angles around a point which total 360°. | Children will apply their knowledge of angles and degrees around a point as they undertake an investigation by making rotating patterns using triangles, finding ones which will not overlap when rotated around a point. | • Can children rotate triangles around a point?<br>• Can children find angles around a point which total 360°?<br>• Can children identify patterns and rules about triangles according to their properties? | • Slides<br>• Worksheet 5A/5B/5C<br>• Protractors<br>• Rotating Shapes 5A/5B (FSD? activity only) |

*NB: 'FSD? Activity only' refers to the alternative 'Fancy Something Different...?' activity within the lesson plan*