Year 6 – Summer Block 1 – Properties of Shapes – Measure with a Protractor

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 6: (6G2a) <u>Compare and classify geometric shapes based on their properties and sizes</u> Mathematics Year 6: (6G3a) <u>Draw 2-D shapes using given dimensions and angles</u> Mathematics Year 6: (6G4a) <u>Find unknown angles in any triangles, quadrilaterals, and regular polygons</u> Mathematics Year 6: (6G4b) <u>Recognise angles where they meet at a point, are on a straight line, or are vertically</u> <u>opposite, and find missing angles</u>

More <u>Year 6 Properties of Shapes</u> resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.



<u>Year 6 – Summer Block 1 – Properties of Shapes</u> <u>Hi Year 6! I hope you had a lovely half term. It's Monday 1st June 2020</u>

Part 1

WALT: Measure with a Protractor See my green notes to help you!



Introduction

Follow the directions to discover where the ladybird is going.

1. Move forwards 2 squares.

2. Turn 90° clockwise and move forward 1 square.

3. Turn 360° anticlockwise and move forward 1 square.

4. Turn 90° clockwise and move forward 2 squares.

5. Turn 90° anticlockwise and move forward 1 square.

Can you plan your own route for the ladybird to follow?



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Estimate these angles.

a



b





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Estimate, then measure these angles. Estimations can be up to 20° either side of the answer. $a - 50^{\circ}$, $b - 135^{\circ}$

C



b









Estimate, then measure the size of the angles a and b.

Estimations can be up to 20° either side of the answer. a – 76°, b – 104°



Fill in the blanks.

A reflex angle is between _

° and

0



Fill in the blanks.

A reflex angle is between 180° and 360°.



Well done! It's over to you now.

Go to Part 2 and choose your challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first set of questions on your chosen challenge – the 'A' questions. If you want extra practice, you can then do the 'B' questions of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.