Max’s Amazing Angles Word Mat

Learning objective: To identify, compare, and order angles and understand that angles are a measure of turn.

Read the definitions below to help you identify the different types of angles. Use these terms to complete the activity questions.

Max the monkey is exploring the playground to find geometry in the real world. He notices that the climbing frame has many different shapes. He finds a sharp, pointy corner that is smaller than a square, which he calls an acute angle. Then, he looks at the corner of a wooden bench and sees a perfect square corner, known as a right angle. Finally, he spots a wide, open gate that is wider than a square corner, which he labels an obtuse angle. Max realises that angles are everywhere, from the hands of a clock to the wings of a butterfly!

Word bank: Angle: The space between two lines that meet at a point. · Vertex: The corner point where two lines meet. · Acute Angle: An angle smaller than a right angle (less than 90°). · Right Angle: A perfect square corner (exactly 90°). · Obtuse Angle: An angle larger than a right angle but less than a straight line (between 90° and 180°). · Straight Line: A flat angle of exactly 180°. · Degree: The unit we use to measure the size of an angle (°).

1. Max finds an angle that measures 45°. Explain why this is an acute angle. (2 marks)

2. How many degrees are in a right angle? (1 mark)

3. Look at the following measurements. Circle the obtuse angles: 30°, 110°, 90°, 150°, 85°. (2 marks)

4. If Max turns his body in a full circle, how many degrees has he turned in total? (1 mark)

5. Draw an acute angle and a right angle. Label each one clearly. (2 marks)

Draw: Draw a picture of a park scene. Include at least one acute angle, one right angle, and one obtuse angle hidden within your drawing. Label them for Max to find!

Extension challenge: Max challenges you: If you have an angle that is 100°, how many more degrees would you need to add to it to make a straight line (180°)?