

Max the Monkey's Shape Explorer Fact-File

Learning objective: To identify, describe, and classify 2D and 3D shapes, including their properties such as vertices, edges, and faces.

Help Max the Monkey organise his shape collection! Choose a 2D or 3D shape and fill in the boxes below to describe its features. Use your knowledge of geometry to explain how we know what each shape is.

Word bank: vertex · vertices · face · edge · curved · straight · polygon · parallel · right angle · 3D shape · 2D shape

1. Shape Name and Type: Write the name of your chosen shape here. Is it a 2D flat shape or a 3D solid shape? How can you tell? (2 marks)

2. Counting the Parts: How many vertices (corners) does your shape have? If it is a 3D shape, how many faces and edges does it have? (3 marks)

3. Describing the Lines: Does your shape have any curved lines or are all the lines straight? Are any of the lines parallel to each other? (2 marks)

4. Real-World Example: Can you think of an object in a classroom or at home that is the same shape as this? Explain why it matches. (2 marks)

5. Max's Maths Challenge: If you had two of these shapes, could you join them together to make a brand new shape? Draw or describe what that might look like. (3 marks)

Extension challenge: Find three different items in your bag or classroom. List them and identify the 3D shape that best describes each object. Are any of them prisms or pyramids?