

Max's Geometric Garden Design

Learning objective: To draw and label 2D shapes accurately, identifying their properties including parallel lines, perpendicular lines, and angles.

Max the monkey is designing a new community garden. Use your ruler and protractor to draw his plan according to the instructions below. Make sure your lines are sharp and your labels are clear.

Draw: Draw a bird's-eye view of a garden layout on plain paper. Use a sharp pencil and a 30cm ruler. The style should be a clean, technical architectural sketch. Include a square, an equilateral triangle, and a set of parallel lines as part of a path. Ensure all vertices are sharp and lines are straight. Add labels for the specific geometric properties listed in the word bank.



Label words: Equilateral triangle · Parallel lines · Perpendicular lines · Obtuse angle · Acute angle · Reflex angle · Quadrilateral · Regular polygon

Steps:

1. Step 1: Draw a square vegetable patch with side lengths of 4cm. Label one pair of perpendicular lines.
2. Step 2: Draw an equilateral triangle flower bed next to the square. Label the three internal angles as acute angles.
3. Step 3: Draw a path that includes two parallel lines. Label these lines clearly.

4. Step 4: Draw a quadrilateral with at least one obtuse angle. Measure the angle and write the approximate size in degrees.
5. Step 5: Add a small decorative feature in your garden that contains a reflex angle. Label this angle.