

Max's Geometric Garden Design

Learning objective: To draw, measure, and identify angles within a geometric garden plan.

Follow the steps below to create a scaled garden design for Max the monkey. Use a ruler, a protractor, and a sharp pencil to ensure your angles are precise.

Draw: Draw a bird's-eye view of a garden layout on a piece of A4 paper. Use a ruler to draw straight paths that intersect. Include one clearly marked triangle (where the sum of the angles should be 180°) and one quadrilateral. The style should be clean, technical, and precise, resembling a professional architectural plan.



Label words: Acute angle · Obtuse angle · Reflex angle · Right angle · Vertex · Degrees ($^\circ$) · Protractor

Steps:

1. Step 1: Draw a straight line 10cm long at the bottom of your page. From one end, use your protractor to draw a 45° angle. Label this as an 'acute angle'.
2. Step 2: From the other end of your line, draw a 120° angle. Label this as an 'obtuse angle'.
3. Step 3: Draw a square flowerbed in the corner of your garden. Use a protractor to ensure each corner is exactly 90° . Label one corner as a 'right angle'.
4. Step 4: Measure the reflex angle on the outside of your 120° corner. Write the value in degrees here.
5. Step 5: Identify the 'vertex' in your drawing. Draw an arrow pointing to one of the points where two lines

meet and label it.