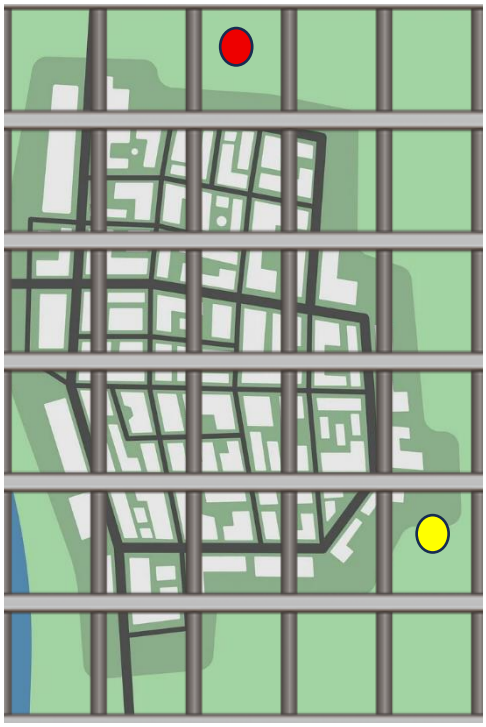
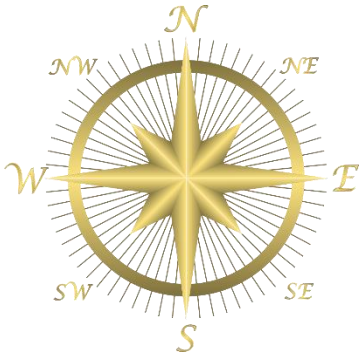
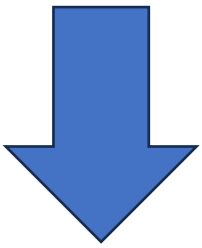
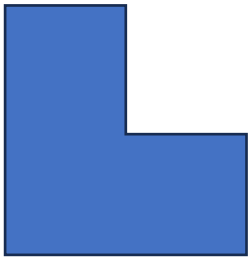
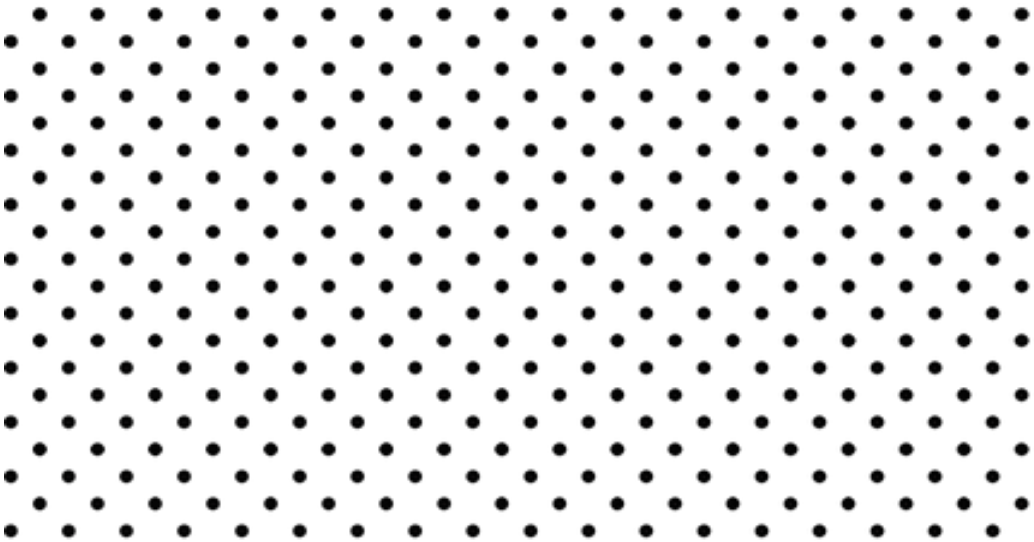
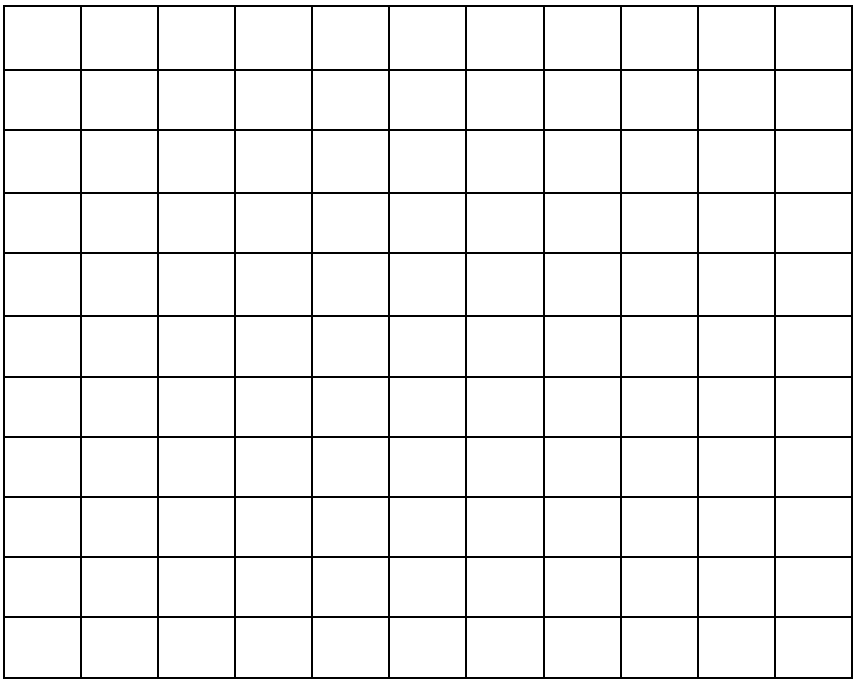
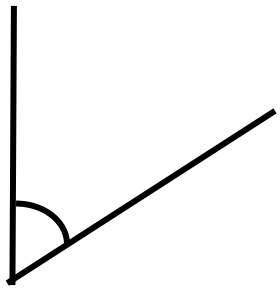
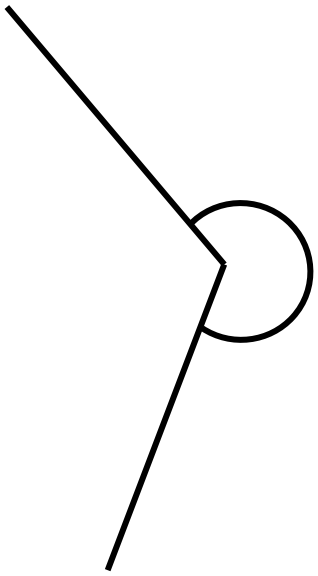
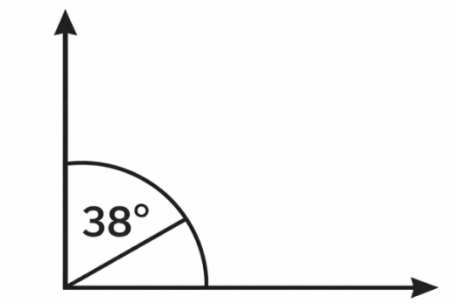
Phase 7 Angle, Symmetry and Transformation Assessment

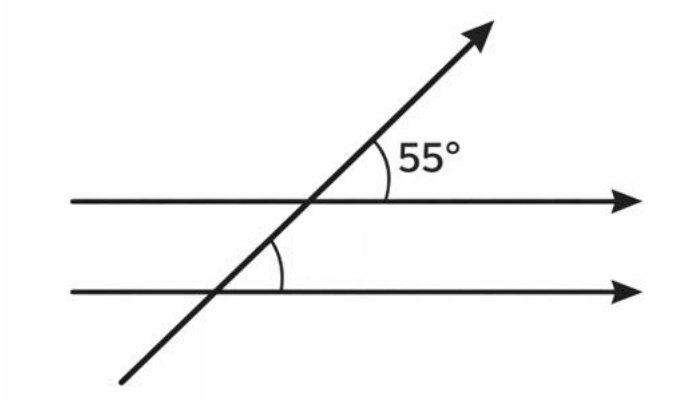
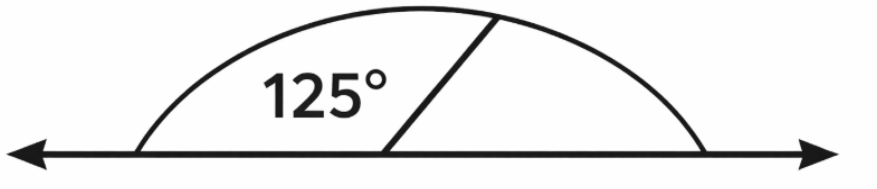
Phase 7 Progression Overview	Assessment Note	Marks
I can use simple scale to calculate actual size or distance (e.g. 1cm=2km).	Question 1	**2**
I can enlarge models made with cubes to a small whole number scale (e.g. double the size of model).	Have you observed the child doing this?	**n/a**
I can create routes and follow that use 8-point compass directions.	Question 2	**1**
I can visualise movements of objects through different orientations (e.g. imagine what a shape would look like if it rotated 90 degrees left).	Question 3	**2**
I can create and explain complex symmetrical patterns and tessellation.	Question 4 1 mark for picking a shape that tessellates. 1 mark for drawing it accurately	**2**
I can measure and draw angles accurately using a protractor to within +/-2 degrees.	Question 5	**4**
I know the relationship between complementary, corresponding and supplementary angles and use this information to calculate missing angles.	Question 6	**3**
I can describe and use the sum of the angles in a triangle and quadrilaterals in problem solving activities.	Question 7	**2**
		/16

	Question	Mark
1	**I can use simple scale to calculate actual size or distance (e.g. 1cm=2km).** a.) A map uses the scale 1cm=2km The distance between Town A and Town B is 27cm, what is the actual distance between these towns? b.) A map uses the scale 1cm=6km The actual distance between Town C and Town D is 42km, what is the distance between these towns on the map?	1 1
2	**I can create routes and follow that use 8-point compass directions.** a.)   Write down the quickest route from the red dot to the yellow dot using the 8-point compass?	1

3	**I can visualise movements of objects through different orientations (e.g. imagine what a shape would look like if it rotated 90 degrees left).** a.) Rotate this shape 90 degrees right  b.) Rotate this shape 180 degrees 	1 1
4	**I can create and explain complex symmetrical patterns and tessellation.** a.) Design a tessellation pattern using one shape below. It must have at least 8 repeated shapes. 	2

	b.) Create a complex symmetrical pattern below. Your pattern must include at least 4 half boxes. 	1
5	**I can measure and draw angles accurately using a protractor to within +/-2 degrees.** Using a protractor, draw an accurate angle of- a.) 56˚	1
	b.) 132˚	1

	Using a protractor, accurately measure these angles- a.)  b.) 	1 1
6	**I know the relationship between complementary, corresponding and supplementary angles and use this information to calculate missing angles.** a.) Calculate the missing complementary angle (not to scale)  	1

	b.) Calculate the missing corresponding angle (not to scale)  **c.) Calculate the missing supplementary angle (not to scale)**  	1 1
7	**I can describe and use the sum of the angles in a triangle and quadrilaterals in problem solving activities.** a.) A triangle has angles 65°, 55° and x. Calculate the value of x. b.) A quadrilateral has angles 90°, 120°, 80° and x°. Calculate the value of x.	1 1