

Line and Rotational Symmetry

Trace each of the pattern blocks provided onto paper. Then make a tiny pencil mark on one angle of the pattern block itself. Place the pattern block on top of the tracing and rotate it until it coincides with the traced image. (Rotational symmetry) Record the number of turns in which the pattern block had rotational symmetry. Then, examine the pattern block and record line symmetry information.

Pattern Block	Number of Sides	Does it have rotational symmetry?	How many turns?	Does it have line symmetry?	How many lines?
Hexagon					
Trapezoid					
Square					
Equilateral Triangle					
Tan Rhombus					
Blue Rhombus					

Study the information above. What patterns do you notice? What conjectures can you make?