**Lesson Element – 8.04 Properties of polygons**

Use a piece of A4 paper for this activity.

Fold it in half horizontally and vertically. Then unfold.

Put 4 dots on the fold lines

* two on the horizontal line, one in each half,
* and two on the vertical line, one on each half.

What shapes can be made by joining the dots on each of the 4 lines?

Are the diagonals of each shape always lines of symmetry?

What happens if all the dots are the same distance from the central point?

What happens if a pair of dots are the same distance from the central point?