




## METRIC PATTERN BLOCKS

### SHAPE CHALLENGE

The HEXAGON equals 3  = 3

Using the Metric Pattern Blocks work your way through the challenges set below. Your aim is to get a *minimum* of 7 points - there are a possible 10 points to be scored (plus a bonus).

Remember to Record, Record, Record!

Create a shape that uses at least 3 different shapes (1 point)

Create a shape that is valued at between 30 and 36 points if the hexagon is worth 3 (2 points)

Create a shape that has a horizontal line of symmetry (1 point)

Create a shape that can (mentally - not physically) be rotated 90°, then flipped then turned another 90° and be back in the original position (1 point)

Create a shape that can tessellate - meaning you can create another 2 or 3 of your shape and join them onto the original with no gaps or overlays (2 point)

Create a shape that is aesthetically pleasing (looks good!) (3 Points)

#### **BONUS CHALLENGE:**

Using your knowledge of all the shapes, find the value of a square if the hexagon has a value of 3. (2 points)