 Activity

|  |  |
| --- | --- |
|  | Get in Shape VEX IQ connectors allow you limitless options to connect beams and plates. Can you get your parts in shape? |

# Step by Step

|  |  |
| --- | --- |
| 1. Using at least 2 connectors, build a set of rails out of plates and/or beams. |  |
| 1. Using at least 2 connectors, build a triangle out of plates and/or beams. |  |
| 1. Using at least 4 connectors, build a rectangle out of plates and/or beams. |  |
| 1. Using at least 6 connectors, build a cube out of plates and/or beams. |  |

|  |  |
| --- | --- |
| ‘LEVEL UP’  * Challenge a classmate to see who can make a shape the quickest. * Using connectors, plates and/or beams build an octagon shape. | Pro Tips  * Rails are useful in supporting both sides of wheel, gear, and sprocket shafts. * Triangles are useful in supporting robot towers. * An octagon shape can be used for a holonomic drivetrain called an “x-drive.” |

**Standard:** CCSS.MATH.CONTENT.5.G.B.3: Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.