 Activity

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

# Step by Step

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