Origami Polytopes

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This is a guide to building polytopes (in particular polyhedra) with paper squares. This is intended to be used to supplement other lessons. For example, this can used to learn about geometry, shapes, polytopes, symmetry, and dimensions to.

Instructions
Open previous fold
Open previous folds
Flip and rotate
You are now done with one polytope piece! You need to make a total of 6 pieces to make a cube. After assembling a cube, try to make a stellated octahedron (12 pieces), or a stellated icosahedron (30 pieces).
When you've made enough pieces, please note that each piece has two “pockets” and two “hands.”

Let's put our pieces together to form a cube. To do so, we follow three simple rules.

*Rule number 1: Pockets face outside.*
Rule number 2: Hands are outside.

This is wrong!

When you satisfy rules 1 and 2, it should look like this.
Now you’re ready for the final rule.

*Rule number 3: Stick one hand in each pocket.*

That’s it! Now you have everything you need to make your own polytopes. For shapes that are more complex than the cube, you’ll have to be more creative about where the joints of the pieces bend. However rules 1-3 still apply.
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