Make a Polyhedra Tree Ornament - Tetrahedron

In *How To Celebrate Winter Solstice*, we learn that Johannes Kepler was the Astronomer who discovered “The Planetary Laws of Motion”. He was also a Mathematician and classified everything polyhedra. Let’s honor his mathematics brilliance too by making some polyhedrons!

**WHAT TO DO**
Cut out and fold on dotted lines. Fold and tape together. Be sure to tape string to the inside for hanging.
Make a Polyhedra Tree Ornament - Octahedron

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WHAT TO DO
Cut out and fold on dotted lines. Fold and tape together. Be sure to tape string to the inside for hanging.
Make a Polyhedra Tree Ornament - Cube

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WHAT TO DO
Cut out and fold on dotted lines. Fold and tape together. Be sure to tape string to the inside for hanging.
Make a Polyhedra Tree Ornament - Dodecahedron

Cut out and fold on dotted lines. Fold and tape together. Be sure to tape string to the inside for hanging.

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Make a Polyhedra Tree Ornament
- Great Stellated Dodecahedron

(Print all 3 pages of this! You need five ‘shapes’ total) Cut out and fold on dotted lines. Fold and tape together. Be sure to tape string to the inside for hanging. Making stellated dodecahedrons is fairly time consuming and requires a light-touch and a fair amount of patience…This polyhedra template is for teenagers and adults only! Give yourself about 2 hours to make…but you can do most of it with your feet up in front of the tv). They look fantastic and you will be super-excited when you have made one, so don’t quit! Greater effort = greater satisfaction!

HOW-TO
You will need:
• Scissors
• Paper (or thin card)
• Double sided tape (I also made one using a gluestick but the tape yielded much better results)
• Ruler
• Needle…or similar sharp point for scoring the paper

1. Cut out each of the shapes as shown. Using a ruler and needle score along all the lines (the scoring is probably the most time consuming part of this project and accuracy is essential).

2. You then need to join the five ‘shapes’ together. Locate one of the little circle on one of the shapes and glue to the next shape.

3. Keep going until all five are stuck together.

4. Then you need to start creating the triangular points. To do this fold along the lines you previously scored and fold and glue….it looks complicated and appear to be a little confusing but stick with it, and everything will fall into place once you begin.