

Building a Rhombic Dodecahedron

Start by cutting along the outer edge of the template on the following page. If the same triangle is attached to two quadrilaterals, cut along one of these edges also. Fold along the edges of all polygons, so that the shaded side is on the outside.

Glue the solid with a glue stick as instructed below. When you glue one face, press it together with your fingers and count slowly to 15. Then glue the next face of the solid.

Glue the triangles under the big quadrilaterals next to them. Then, glue the small quadrilaterals under the big quadrilaterals next to them. Finally, glue the last big quadrilaterals on to the top of the solid.

Alternatively, you can draw the template image on another piece of paper or cardboard with a protractor. The angles of the big quadrilaterals are 70.5 and 109.5 degrees. With a side length of 1.2 inches (3 cm), the result will be a solid that is about 2 inches (5 cm) high.





