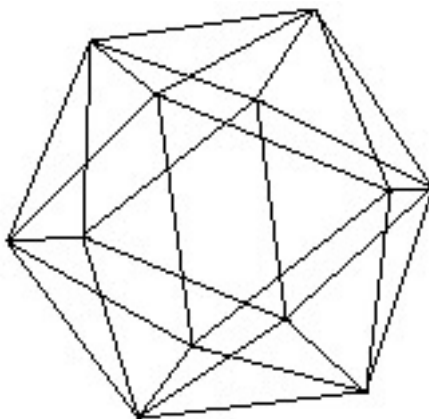


Regular Polyhedra with Doweling Rods

The Big Icosahedron

Work in a team of 5 to 8 people. Build icosahedron (20 triangular faces, 5 edges meeting at each vertex). You will need 30 rods and 12 connectors. A small-scale icosahedron may be helpful to build the big one.



Notice that the icosahedron, once completed is quite stable. It will not bend. It is not deformed. It can be made to rotate fairly easily on one of its vertices. The axis will be the line connecting the vertex on the floor with the opposite vertex.

Reference

Lovitt, Charles and Clarke, Doug. *Activity Bank Volume 1*. Canberra, Australia: Curriculum Development Centre, 1988.

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