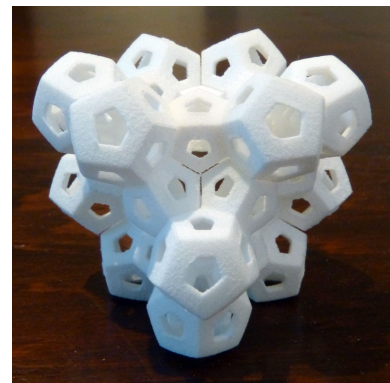




The goal of this difficult puzzle is to assemble the six identical ribs, shown above, into a pyramid-like structure. Three different views of the assembled Dv30 Asteroid are shown below.



The ribs are based on the combinatorial Hopf fibration of the 120-cell, which is one of the six regular polytopes in four-dimensional space. When assembled the asteroid is a portion of the stereographic projection of the radial projection of the 120-cell in four-space to the three-sphere to three-space.

Each of the ribs is made from five dodecahedral cells (D) in the vertex centered projection (v) of the spherical 120-cell to three-space, and there are 6 ribs each with 5 dodecahedra ($6 \times 5 = 30$), giving the puzzle its designation.

The puzzle can be bought from Shapeways.

<http://shpws.me/mT6x>

