Kite Pattern Triacontahedron

Designed by David Mitchell

This Kite Pattern Triacontahedron was adapted from my earlier Kite Pattern Rhombic Dodecahedron design with the help of Wayne Brown in 1990. I drew the diagrams at the time but they have not been formally published before. Like the Kite Pattern Rhombic Dodecahedron this design is a self-template design .... the modules are made in pairs and each is then used to fold the other. These diagrams show you how to fold the basic module but do not show the self-template process which configures them. For that you will need to refer to the diagrams for the Kite Pattern Rhombic Dodecahedron. Those diagrams are also available on this site.

The folding sequence for the modules begins from the square, which is then trimmed down to a custom rectangle. Because this custom rectangle is a compound of six golden rectangles it naturally provides the angles required for the design. You could, if you preferred, simply fold the excess paper away inside the module ... but at the cost of unnecessary extra layers in some places.

You will need sixty modules altogether. If you use ten modules in each of six contrasting but complementary colours you can assemble the design so that each colour forms a band around the design in the way shown in the picture above.

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