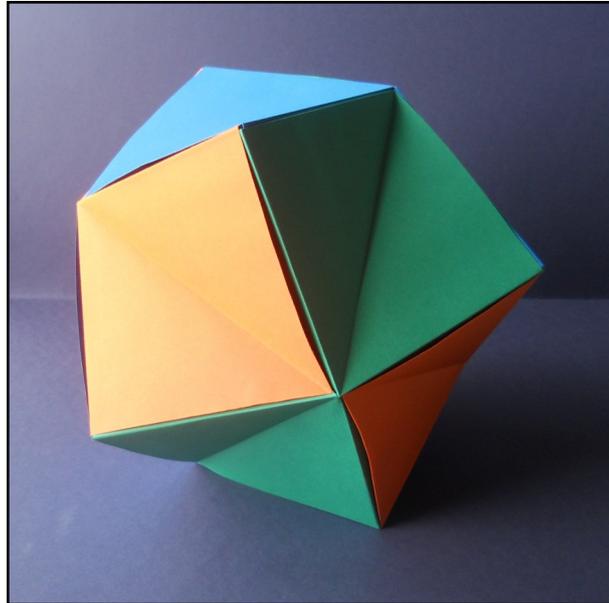


Star of Wonder

Designed by David Mitchell

The wonder of this star does not lie in its form, which is a familiar one in modular origami, but in the way the modules are folded and assembled.

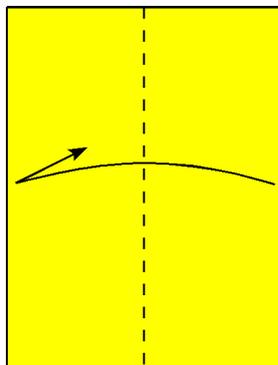
The modules are made by first folding rectangles of paper into traditional Newspaper Hats, then partially opening them up before using exactly the same creases to turn the hats into modules.



These modules are delta or triangular modules, which is to say that their two tabs and two pockets are arranged tab, tab, pocket, pocket around the module rather than in the more familiar tab, pocket, tab, pocket way. This makes the assembly process more interesting.

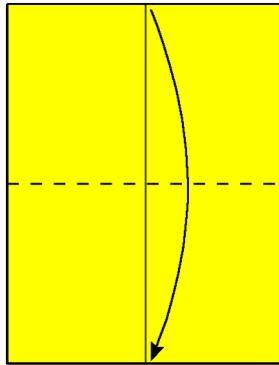
The modules can be folded from either A format silver rectangles or US letter size paper. The design will work equally well from either differentiated or homogenous paper. You will need four sheets of paper in each of three contrasting but complementary colours. If you are using differentiated paper begin with your paper arranged coloured side up.

1



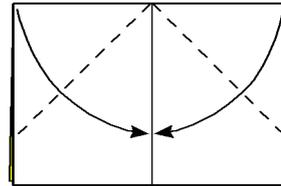
1. Fold in half sideways, then unfold.

2



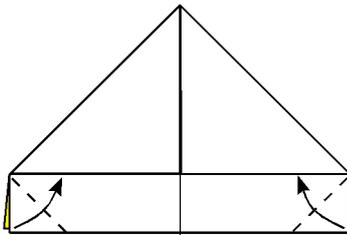
2. Fold in half downwards.

3



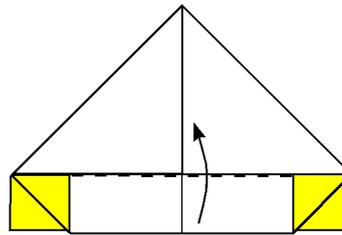
3. Fold both top corners onto the vertical centre crease.

4



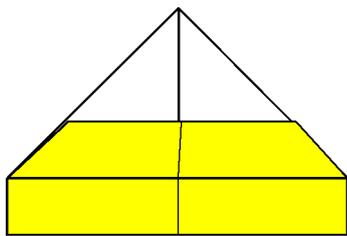
4. Fold both bottom corners inwards so that they butt up against the bottom edges of the front layers.

5



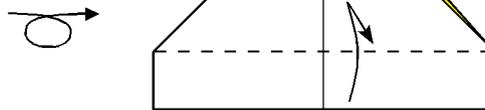
5. Fold the front bottom edge upwards along the line of the edges of the front layers above it.

6



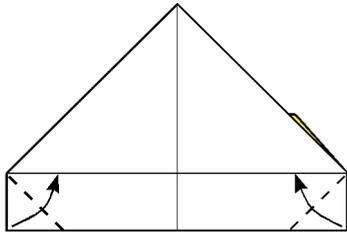
6. This is the result. Turn over sideways.

7



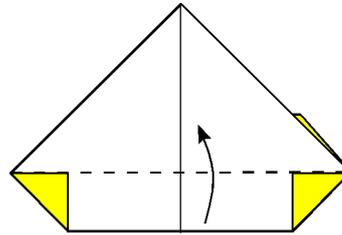
7. Fold the bottom edge upwards like this, then unfold.

8



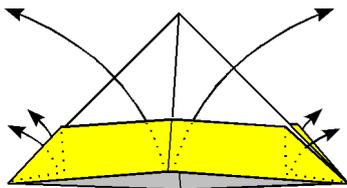
8. Fold both bottom corners inwards using the crease you made in step 7 to locate the folds.

9



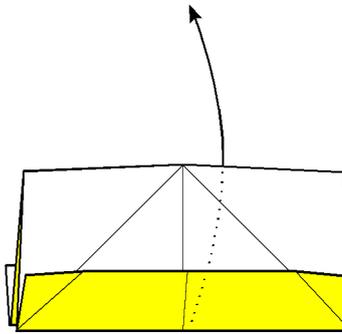
9. Fold the bottom edge upwards again using the existing crease.

10



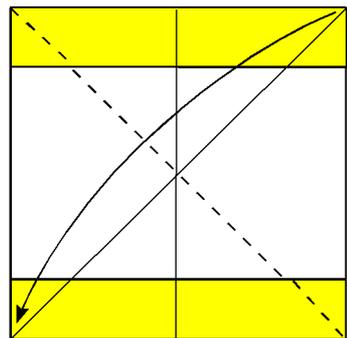
10. This is the traditional Newspaper Hat. Wear it until you get bored then open out all six triangular flaps.

11



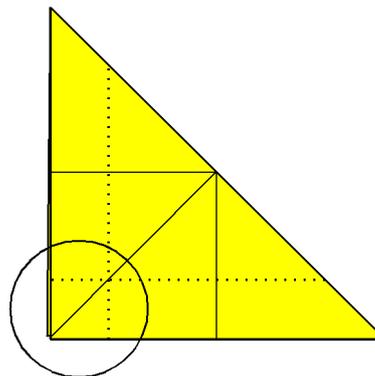
11. Bring the back half of the design into view.

12



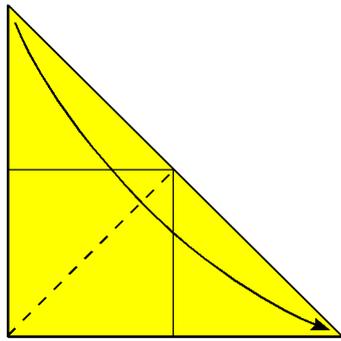
12. Fold in half diagonally using the existing creases.

13



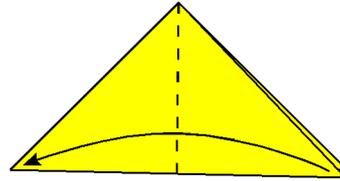
13. Interweave the internal flaps (found inside the layers of the module at the corner identified by a circle) to lock the back and front of the module firmly together.

14



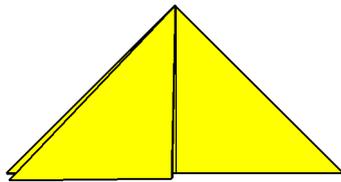
14. Fold in half diagonally using the existing crease.

15



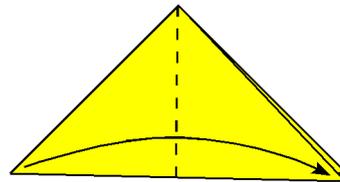
15. Fold just the front layer in half sideways using the existing crease.

16



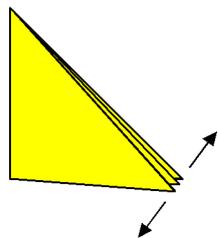
16. Turn over sideways.

17



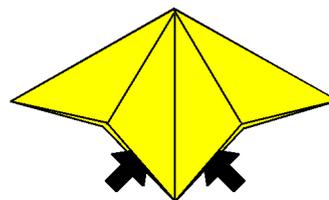
17. Fold just the front layer in half sideways using the existing crease.

18



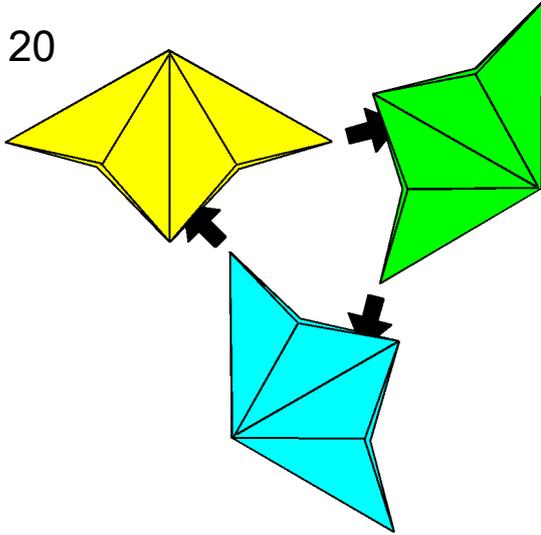
18. Spread the points and arrange the module to look like picture 19..

19



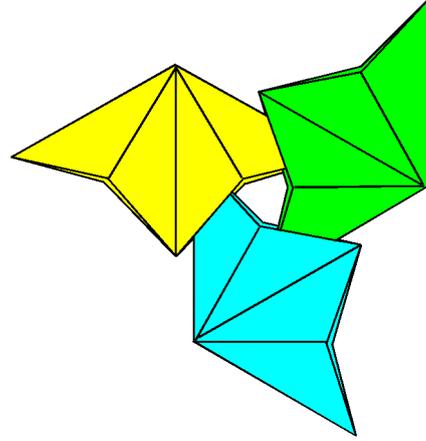
19. The first module is finished. The outside points are the tabs and the pockets are indicated with arrows. Make four in each of three contrasting but complementary colours.

20



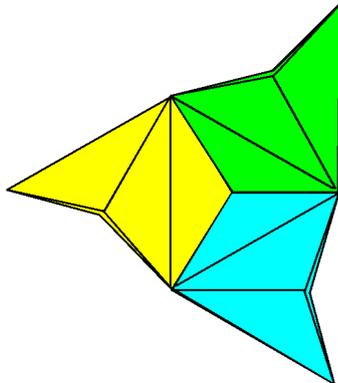
20. Three modules go together to form a triangular pyramid. This pyramid will form one of the eight points of Star of Wonder.

21



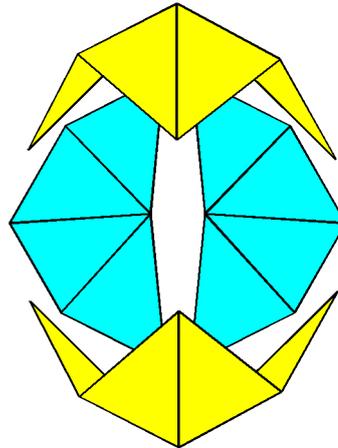
21. Halfway there.

22



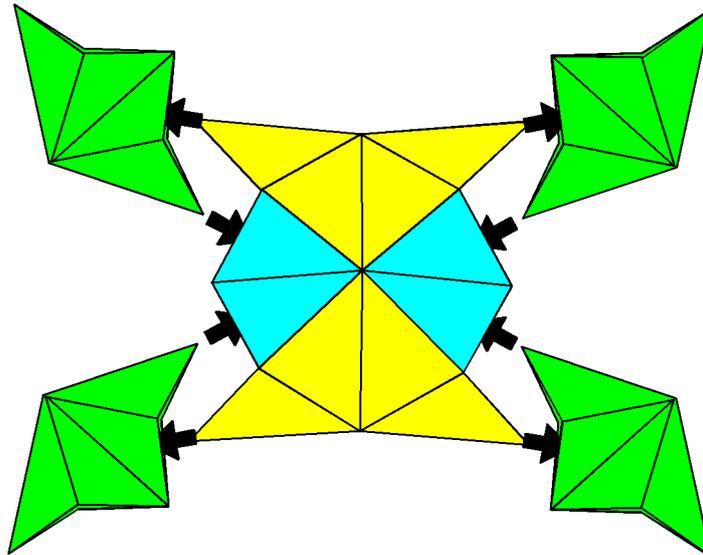
22. This is what the finished triangular pyramid should look like. This was only practice to make sure you understand how the pyramids are formed. Take this pyramid temporarily apart again.

23



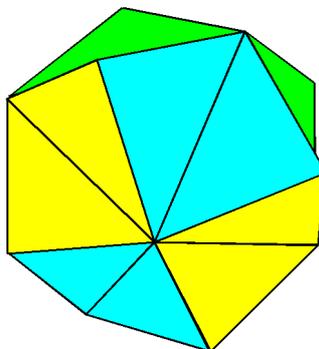
23. Star of Wonder is shaped like an octahedron which has a pyramid attached to each face. One edge of each of four pyramids meets at each corner of the octahedron. It is best to begin assembling the star by making one of these corners from two modules of two colours like this.

24



24. Add four more modules of the third colour to complete a ring of four pyramids. Once this has been done the pattern of the colours and the structure has been established and you should have no difficulty adding the remaining four modules to complete the assembly.

25



25. Star of Wonder is finished.

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