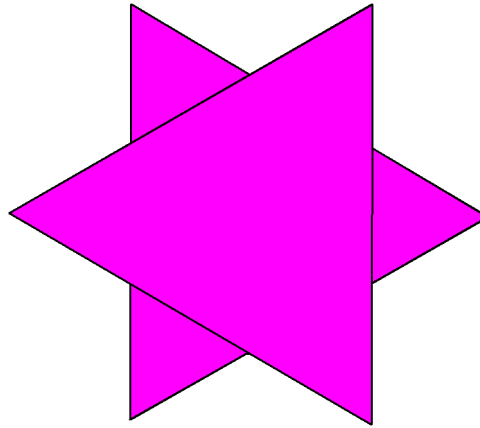


Star of David

Designed by Larry Hart

This simple Star of David, which has become something of a modern classic, was designed by Larry Hart in or around 1986. A version folded from a bank note was first published in 1987 in Complete Origami by Eric Kenneway.

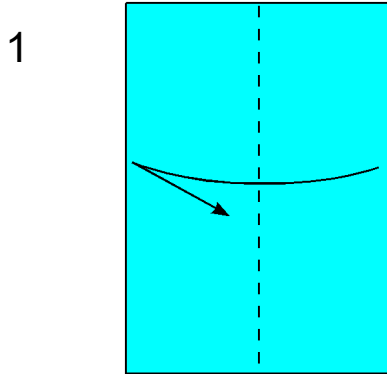


The technique used to obtain the six points of the star is similar to that used by Shuzo Fujimoto in a design which had previously been published in British Origami magazine 99 of April 1983. Larry 's design differs from Fujimoto 's in that it is foldable from many different rectangles and in that the pleats are woven together on the outside of the star rather than hidden away inside. This makes the design more adaptable and easier to fold.

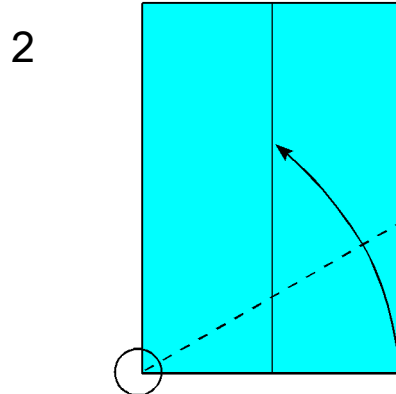
The design is effectively folded from an equilateral triangle (step 8 of the diagrams onwards), the previous steps simply showing you how to obtain such a triangle from a single sheet of ordinary photocopy paper in A4 or US letter size. You can, of course, use any method you like to create an equilateral triangle and adapt the remaining steps accordingly.

The mathematics inherent in the design of this Star, and its forgiving nature, make it an ideal model for children to fold in the classroom. Once finished it then make a useful decoration.

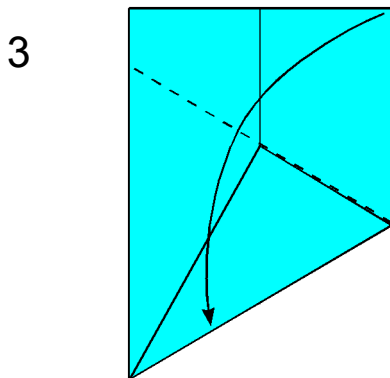
You will need a single sheet of A4 or US letter size paper for each star. The design works best when both sides of the paper are the same colour.



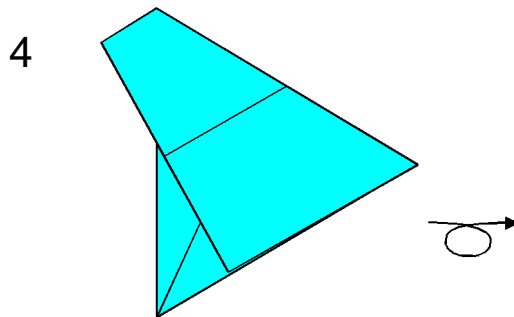
1. Fold in half edge to edge, then unfold.



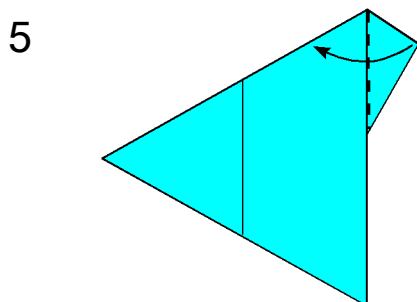
2. Fold the bottom right corner onto the vertical crease making sure the crease starts exactly from the bottom left corner which becomes sharp.



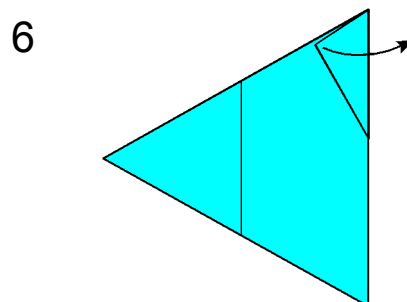
3. Fold the right edge onto the bottom sloping edge.



4. Turn over sideways.

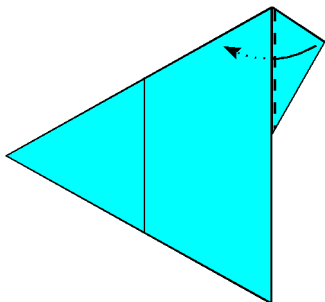


5. Fold the right point inwards along the line of the right edge of the front layer.



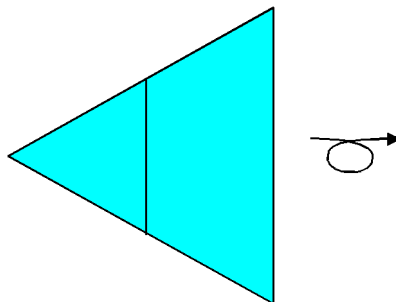
6. Undo the fold made in step 5.

7



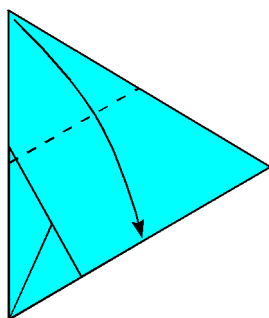
7. Remake fold 5 in between the other layers. Steps 6 and 7 are not essential to the design but following them produces a cleaner result.

8



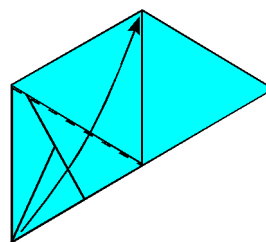
8. Turn over sideways.

9



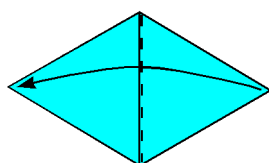
9. Fold the top point diagonally downwards along the line of the existing crease.

10



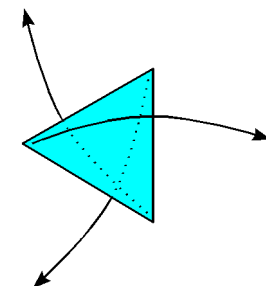
10. Fold the bottom point diagonally upwards along the line of the sloping bottom edge of the front layers.

11



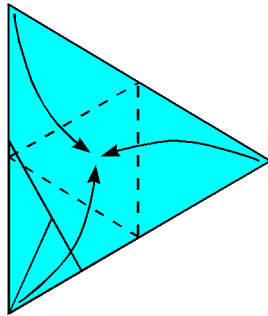
11. Fold the right point inwards along the line of the right edge of the front layers.

12



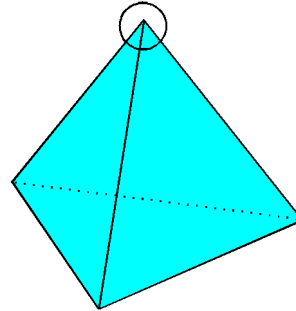
12. The result should look like this. Open out the last three folds.

13



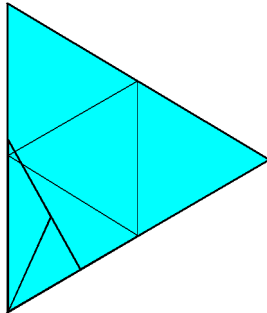
13. Liz Meenan has pointed out that folding all three points inwards until the corners meet produces a basic tetrahedron.

14



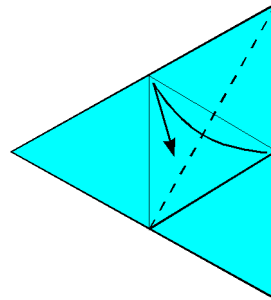
14. The faces of this tetrahedron need to be held together at the point marked with a circle.

15



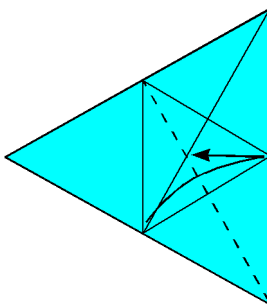
15. Flatten and turn over sideways.

16



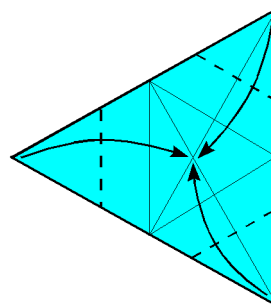
16. Fold in half, then unfold.

17



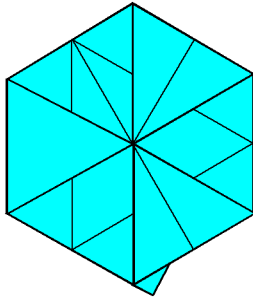
17. Fold in half, then unfold, again.

18



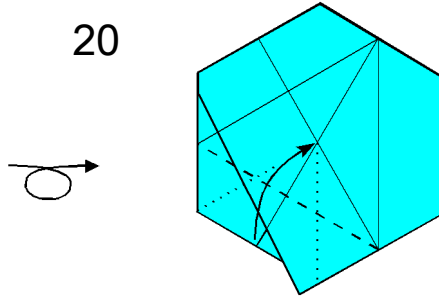
18. The point where the creases made in steps 16 and 17 intersect is the centre of the triangle. Fold all three corners to this point.

19



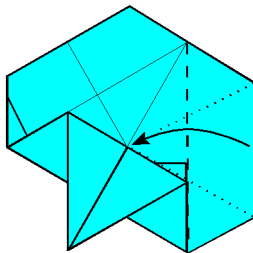
19. Turn over sideways.

20



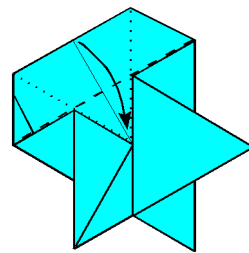
20. Fold the bottom sloping edge inwards using the existing crease and allowing the back layers (marked with a dotted line) to flip into view as you do so.

21



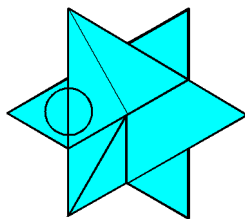
21. Repeat step 20 on the right edge.

22



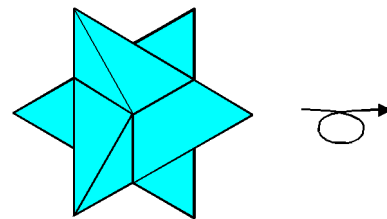
22. Repeat step 20 on the top sloping edge.

23



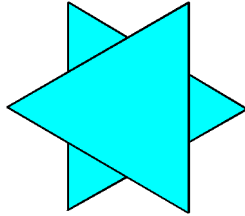
23. Tuck the layers marked with a circle behind the layers underneath them.

24



24. The layers are now all locked together. Turn over sideways.

25



25. The finished Star of David will look like this.

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