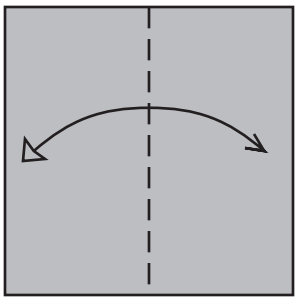
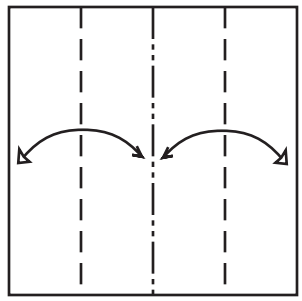
Stellated Rhombic Dodecahedron

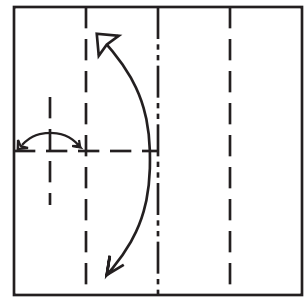
designed/diagrammed by Jeannine Mosely copyright 2002



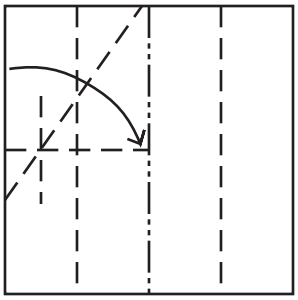
1. Book fold and unfold. Turn paper over.



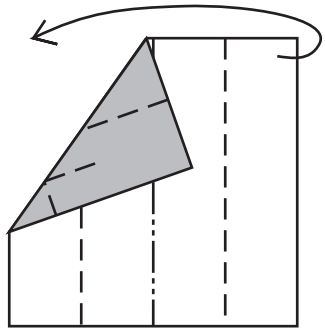
2. Cupboard door fold and unfold.



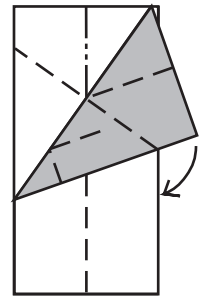
3. Make partial horizontal and vertical creases as shown.



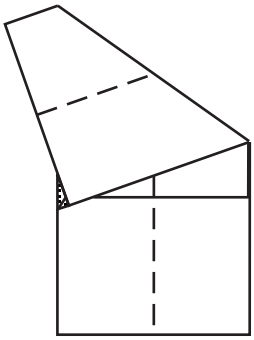
4. This is a tricky fold! Pivot the paper so that the crease passes through the cross between the two partial creases and so that the upper left edge passes through the center of the paper. (The diagonal crease should come out a little to the left of the center of the top edge.) These constraints uniquely determine the crease.



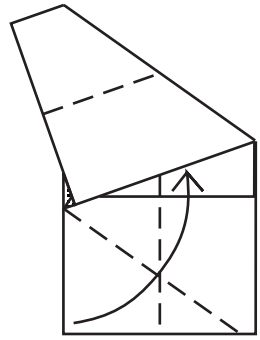
5. Fold the right half of the paper behind on existing center fold.



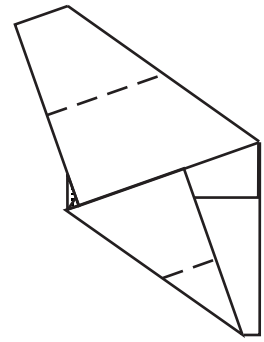
6. Fold top right corner down as shown, so that the short diagonal edge at the center right lies along the vertical center edge below it.



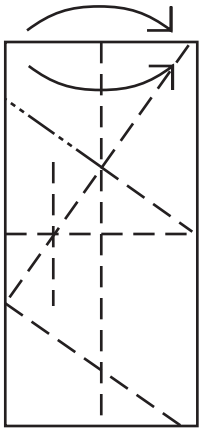
7. Note how the vertical valley folds line up on the different layers of paper.



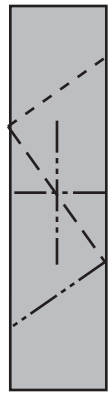
8. Fold both layers of the lower left hand corner up so the lower left edge lies along the diagonal edge as shown.



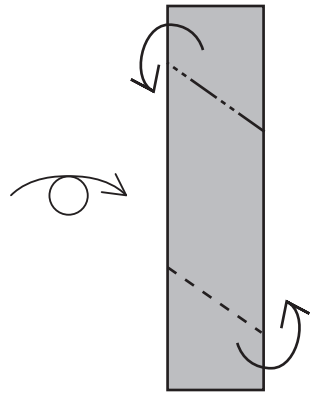
9. It should look like this. Unfold until the paper is just folded in half along the center mountain fold.



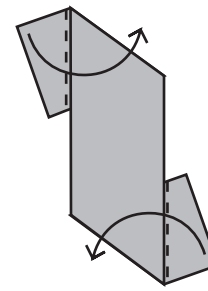
10. Refold into quarters folding the top layer forward and the botton layer behind.



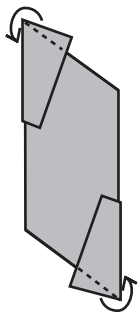
11. One side looks like this...



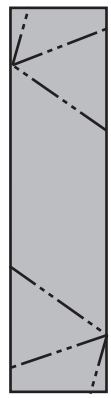
12. And the other looks like this. Fold flaps behind on existing creases



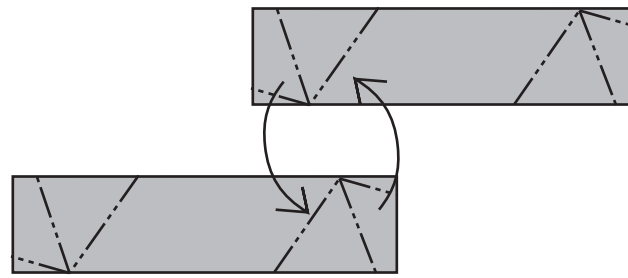
13. Fold flaps forward along the vertical edges of the parallelogram.



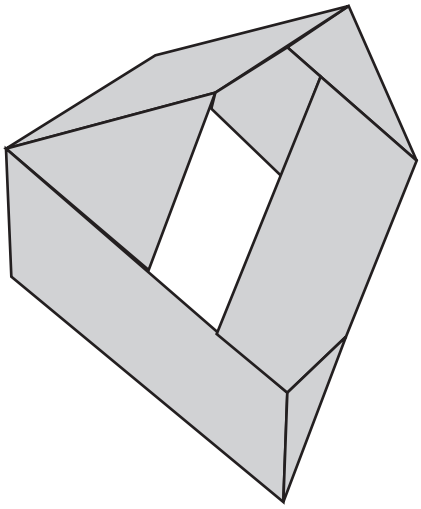
14. Fold flaps behind along the diagonal edges of the parallelogram.



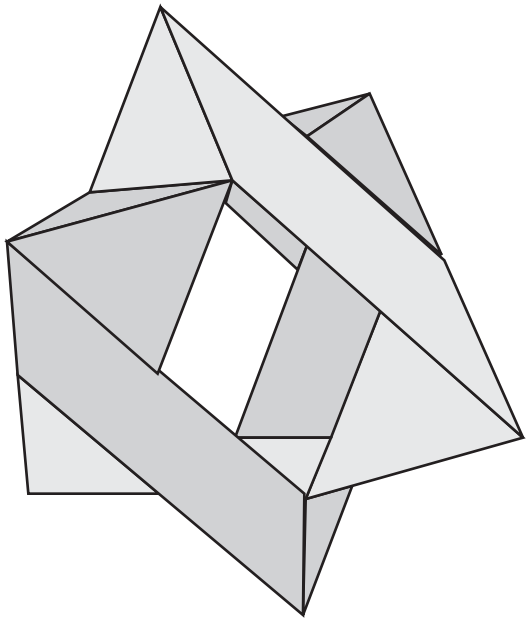
15. Unfold. This is the finished module. Make 12 of them.



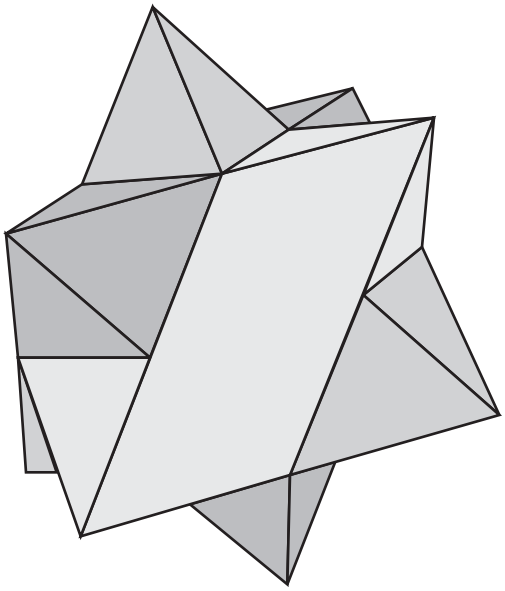
16. This picture shows how the flaps of two modules can be tucked into eachother's pockets.



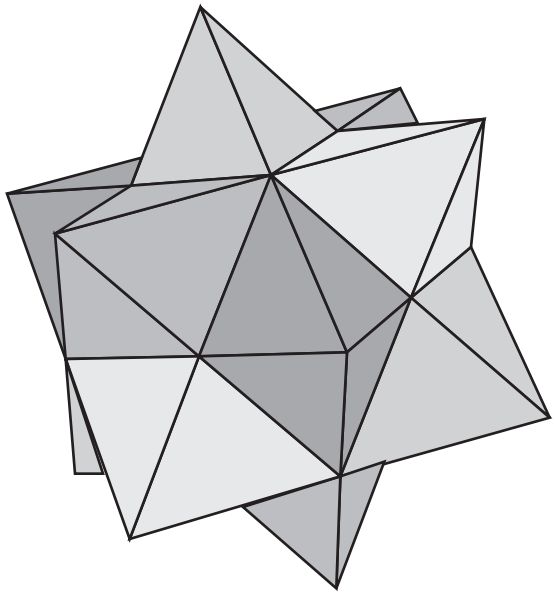
17. Three modules are linked into a ring.



18. A second ring is interlocked with the first.



19. A third ring interlocks with the first two.



20. The fourth ring is interwoven into the other three to complete the model.