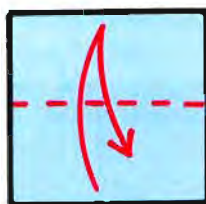
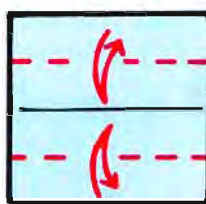


STELLATED OCTAHEDRON

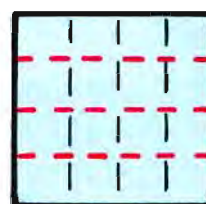
Design by Sam Ciulla



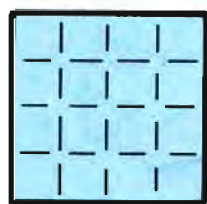
1 Begin with the colored side facing up. **BOOK FOLD** and **UNFOLD**: Fold your paper in half and unfold.



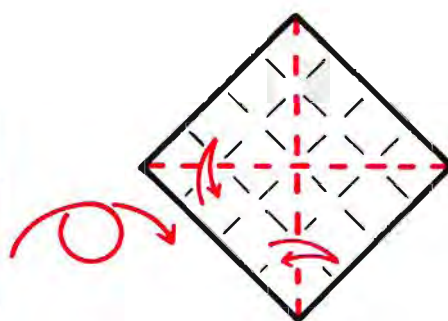
2 **CUPBOARD FOLD** and **UNFOLD**: Bring the top and bottom edges to the horizontal centerline. Crease and unfold.



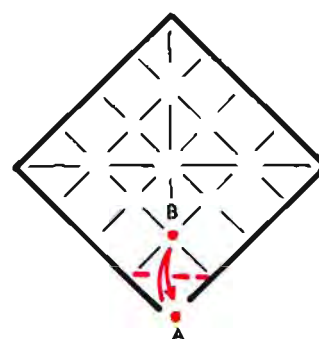
3 Rotate your paper one-quarter turn so that the creases you made are now vertical. Repeat steps 1 and 2 in this direction.



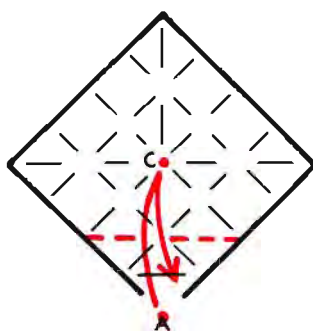
4 Your paper should now be divided into a grid of sixteen little boxes. Turn your paper over to the white side and position it so one corner is near you.



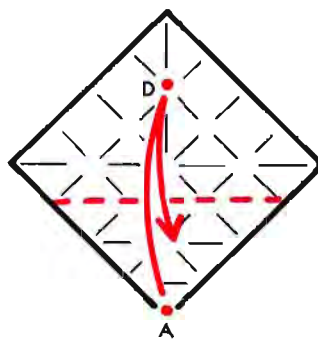
5 **DIAPER FOLD** and **UNFOLD** (two times): Bring the bottom corner up to the top corner. Crease and unfold. Rotate your paper one-quarter turn, then crease the other diagonal and unfold.



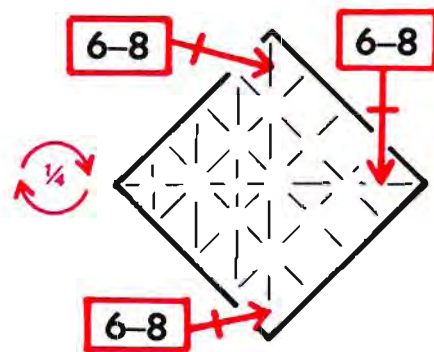
6 Locate the bottom corner (dot A). Then locate on your grid the nearest intersection of creases (dot B). Fold dot A to dot B. Crease and unfold.



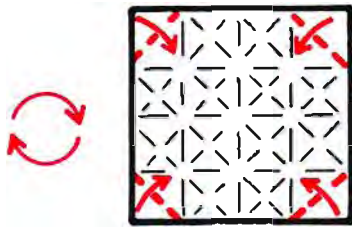
7 Locate the second nearest intersection of creases (dot C), which also happens to be the center point of your paper. Fold dot A to dot C. Crease and unfold.



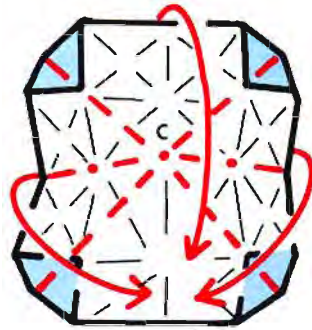
8 Locate the farthest intersection of creases (dot D). Fold dot A to dot D. Crease and unfold.



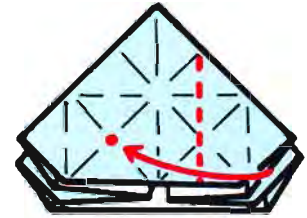
9 Rotate your paper one-quarter turn. The new bottom corner now becomes dot A. Repeat steps 6 through 8 three more times.



10 The result should be a grid of sixteen little boxes with an X in the center of each box. Blunt the corners of your paper by folding each outside corner in along the nearest crease.



11 Press down at C to make sure the center point pops away from you. Raise the sides along the existing mountain folds and push the sides toward each other and down to the center of the bottom edge. Flatten the model. The result is a waterbomb base with blunted corners.



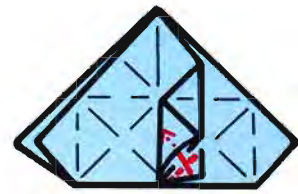
12 Notice the two small boxes that lie on the bottom edge of your paper; each has an X in the center. Bring the far right corner (front layer only) past the nearest X to the center of the second X.



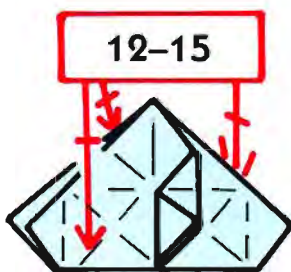
13 Bring the same corner back to touch the folded edge you created in step 12.



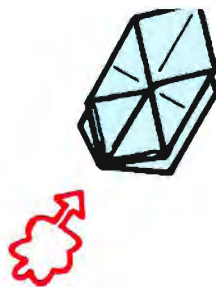
14 In step 13, you created a triangular flap. Look for the smaller triangular flap that lies along the lower edge of this one. Fold the smaller triangular flap upward. Crease firmly and unfold.



15 Put your finger inside the pocket formed by the double edge at the lower edge of the large triangular flap. Remove your finger, squeeze the pocket open, and insert the smaller triangular flap into this pocket.



16 Repeat steps 12 through 15 on the left side of your model. Then turn your paper over and repeat on the back.



17 Slightly separate the top and bottom layers of paper and blow into the opening to inflate the ball.



18 Within each diamond shape on your ball, find the valley fold and gently press inward with a finger to give the ball a faceted look.