

Small tetrahedral solar hot air balloon

1. Remove 4 trash bags from the roll.
2. Cut off the sealed end (as close to the seal as possible).
3. Find the long edge of the folded bag that is folded several times over.
4. Insert the blade of a pair of scissors into one of the folds and cut all the way to the other end. You should be able to spread the bag open into a 3ft x 5ft sheet of plastic.
5. Repeat this procedure for all 4 bags.
6. Join 2 bags together with masking tape, along the long (5ft) side of the sheets.
7. You should have a 5x6ft sheet of plastic. Attach another bag to one of the 5ft sides, and then the last bag. You should have a long, 12x5ft sheet of plastic.
8. Join the two shorter (5ft) ends with the masking tape.
9. You will now have a flat tube that measures 6ft x 5ft.
10. Seal one of the open ends with masking tape. This is Seam A. There should be a seam at the center of the new seam.
11. At the other end of this seam, take the remaining open end and pull it open.
12. Seal this opening, so the seam is perpendicular to seam A. [See how to make seam](#) There should be 3 corners of the balloon.
13. Cut about 5 inches off of one of the corners, and invert the entire balloon like a sock.
14. When the balloon is inflated, it should be triangular, with 3 sides. This shape is a tetrahedron, similar to a pyramid.
15. Use a blow dryer to inflate. The sun will keep the balloon hot and can be flown on any sunny, calm day. A small fan will work, but since this is a small balloon it is hard, especially in wind, to heat up very fast.