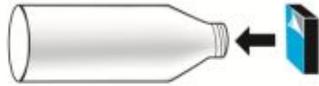


PUFF ROCKETS!

1. Peel and place the adhesive side of the foam over the mouth of the bottle.



2. Insert the smaller diameter straw through the hole in the foam until the straw just comes out of the other side of the foam piece. Note: if the straw has a spoon end – insert the spoon end into the hole.



3. Squish and insert the soft foam into the end of the larger diameter straw. Insert almost all of the foam into the straw, leave a little bit of the foam sticking out. Repeat to make 2 rockets.



4. Choose one of your rockets to be the “control” rocket. The control rocket will not change and can be used to compare with your other rocket.
5. Add fins to your other rocket, this will be your first modification (Mod 1 on your worksheet). Fold 1/4 of the label back on itself so the sticky sides touch to form a fin, attach the fin and repeat to form 3 fins as shown below. Trim labels to create a triangle shape.



6. BEFORE LAUNCHING, answer question #1 on your worksheet.
7. Test and compare the outcomes of the “control” rocket to the rocket with fins. Launch each rocket twice and record your observations on question #2.
8. After testing your Mod 1 rocket twice, make a second set of modifications to your rocket, this will be Mod 2. The goal is to make your rocket go higher. Changes can be made to the length of the rocket, fin shape, fin size, fin number, or amount of foam sticking out the “nose cone.”
9. Test your Mod 2 rocket twice and record the estimated height on your worksheet.
10. After you’ve tested each rocket twice, analyze the data you collected and answer question #3 on the worksheet.
11. Lastly, answer question #4 on your worksheet.