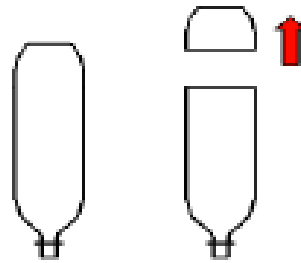


Hands-On Activity

Introductory Level

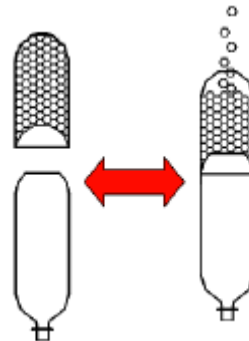
Our activity today involves building a rocket with the materials provided. The only materials that are required for use are the two 2 liter bottles that have been provided. All other additional materials are up to the team. Remember, adding some materials could improve your rocket, while adding other materials or adding too much of a good material could hurt it. The competition today is to find the rocket that travels the farthest. All rockets will be launched from the same angle and with the same force. All other aspects of design will be up to the team. Below are general guidelines for construction. Feel free to do come up with your own if you think your idea is better than what you see below. The only requirement is the use of the two 2 liter bottles as described below.

Good luck!



Step 1. Cut the bottom off of one 2 liter bottle.

Step 2. Fill bottom of cut bottle with water and then attach with duct tape to the bottom of the whole bottle.



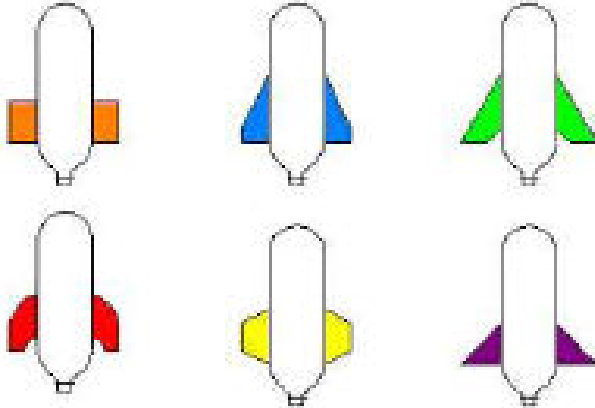
The next two steps are optional:

Step 3. Attach nose cone (party hat) to the base of rocket using glue or tape.



Step 4. Cut wings from the materials provided and attach them to your rocket using either glue or tape. Options for wing shapes are shown below.

*be sure to record selected materials and prices so that you can determine how much money was spent.



Final Step (required): Fill bottle ½ way with water, and watch it launch!

Distance traveled by rocket: _____