

HOWTO BUILD A WATER ROCKET FOR DUMMIES

Soler Jofra, Aina (Universitat Autònoma de Barcelona), Brian Kelly (University of Maryland), Guillem Marques (Elisava) Chao (China), Ben (Palestina)

GOALS

1. Be able to design and launch a water rocket
2. Enjoy your time and cooperate with more dummies

MATERIALS (Look in your garbage)

- 1.5L plastic bottle
- Medium trash bag
- String
- Paper
- Paper plates
- Tape and Scissors

INSTRUCTIONS

Parachute assembly

1. Cut the trash bag into a circle with five tabs (figure 1).
2. Use scissors to make small holes on the tabs.
3. Push strings through the holes and tie down. Can be reinforced using tape.
4. Cut the string into five pieces of length 50cm.

Fig. 1

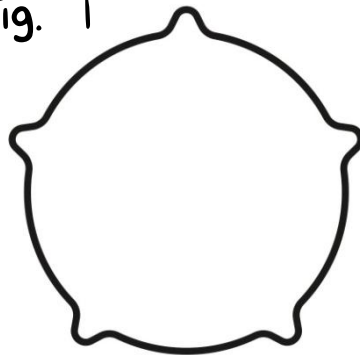
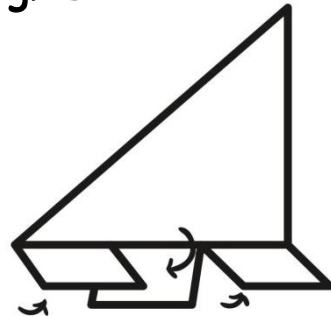


Fig. 2

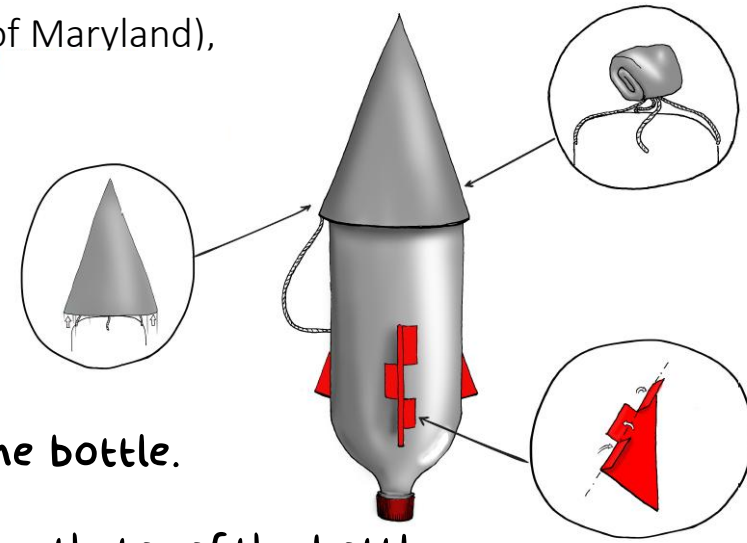


Body structure

1. Wrap paper around the bottle.
2. Paper must not cover the top of the bottle.
3. Use paper plates to cut out the fins (figure 2).
4. Attach fins equally spaced around the bottle using tape on wings tabs.

Attaching the parachute

1. Make a cone out of paper to place on the top of the rocket.
2. Put rubber band around bottle, approximately one fifth from the bottom.
3. Tie strings to rubber band equally spaced around the bottle.
4. Fold the parachute correctly and use a con paper as a top part.



3,2,1...GO!

