

Prep Instructions

The following items will be required for the prep of this activity:

- cardboard box
- plastic ruler
- bellow pump
- binder clip
- protractor
- duct tape or packing tape
- construction paper
- pen or marker

Step 1

Cut off the lid and two adjacent sides of the cardboard box. Remove half of the remaining smaller side, so that the remaining cardboard is in the shape of an "L".

Step 2

Tape the plastic ruler along the end of the plastic tube of the bellow pump so that the end part of the tube stays straight. Tape the bellow pump tube to the base of the box several inches away from the edge. Attach the binder clip to the smaller side of the box and let the pump tube rest on top of the clip's handles (**Figure 1**).

Step 3

Take a piece of construction paper and, using a protractor, draw the angle lines from zero to 90 degrees, using ten degree intervals. In addition, draw the 45 degree line. Tape the paper protractor to the bigger side of the box, making sure the origin of the paper protractor lines up with the point where the tube bends.

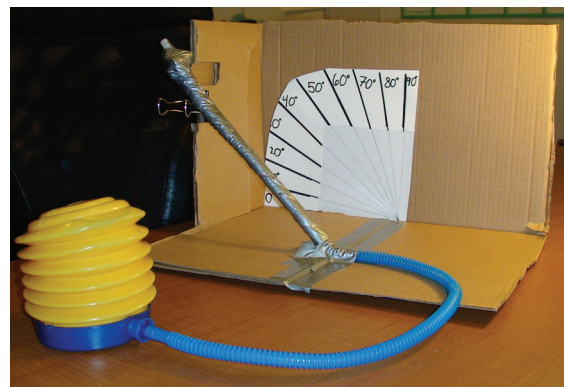


Figure 1

Step 4

Using a piece of construction paper, make a tube of smaller diameter than the body of the rocket. Attach the paper tube to the mouth of the pump tube, as seen in **figure 2**.

Step 5

If desired, the box may be decorated with paint, markers or construction paper. However, acrylic paint may cause the box to warp and may take a long time to dry.

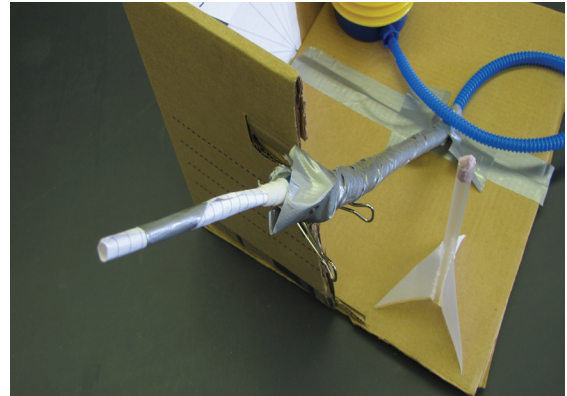


Figure 2