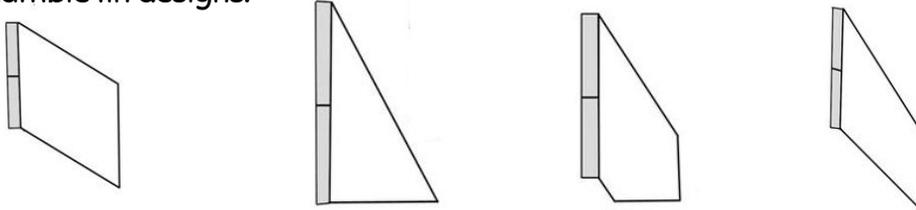


# AIR ROCKETS!

## Student Directions

1. Complete questions 1 and 2 on your Student Worksheet
2. Cut out the body tube, pressure cap, nose cone, 4 fins and fin guide by cutting along the solid lines.
3. Wrap the body tube around the standing pipe and tape it smoothly in place with masking tape. **\*\*Do not tape the paper to the pipe! Your rocket will need to slide off the pipe.\*\***
4. Fully wrap the tube with masking tape tape, working your way down and making it 2 layers thick.
5. Slide the paper tube to one end of the pipe and tape the pressure cap on by crisscrossing tape over the top, 2 layers thick, and smoothing it down.
6. Curl the nose cone to overlap the dotted section, tape it together,
7. Pack paper towel into the nose cone, use a pencil to pack it tightly.
8. Tape the nose cone on top of the body tube using the tabs, then cover it in tape.
9. Fold the fins on the dashed lines, stack them together, and trim the ends at an angle.

Example fin designs:



10. Wrap the fin guide around the base of the body tube and use it to mark the tube for either 3 or 4 fins.
11. Glue the fins together with a glue stick (don't glue the tabs), line them up at your marked locations, and tape them all securely in place.
12. You're ready to launch! Grab your safety goggles and await your teacher's instructions.
13. Record your launch results on your Student Worksheet.
14. Decide what type of design change you want to make to your rocket. Design changes can be length of the rocket, fin shape, fin size, or fin number. After making your modifications, draw or describe those modifications on your Student Worksheet.
15. Record your launch results for your Mod 1 rocket on the Student Worksheet.
16. Analyze your results and complete question 5 on the Student Worksheet