**Rocket Launch**

**Do some research on angles of trajectory and the best way to construct a rocket.**

**The launch will be on May 12. Your rocket must be ready to launch if you wish to receive credit. The rocket that goes the farthest will receive extra credit.**

**BUILD THE ROCKETS**

**a.** Download the rocket template from makezine.com/15/airrocket and print it out on 8½"×11" paper. Cut out all the pieces on the solid lines as shown.

**b.** Wrap the body tube around the

½” PVC Pipe and tape it along the seam.

The smoother your tape, the more aerodynamic your rocket will be. Slide the body tube to the end of the PVC Pipe. Tape the pressure cap on top of the body tube by crisscrossing ¾" tape over the top, and smooth it down.

**NOTE: Make sure to overlap the tape, making it about 2 layers thick everywhere. If you miss a spot, you’ll have a dramatic blowout!**

**c.** Curl the nose cone around to overlap the dotted section, and tape it in place. Stuff the nose cone tightly with tissue. Use a pencil to pack it tightly.

**d.** Place the nose cone on top of the body tube and tape around the tabs.

**e.** Wrap the fin guide around the PVC pipe at the base of the body tube and mark on the 3s for a 3-fin model or the 4s for 4 fins.

**f.** Fold the fins on the dashed lines, then stack them together and trim the tops and bottoms at an angle.

**g.** Glue the fins together with a glue stick, and pinch them to adhere them. Make sure you don’t glue the tabs that will be used to attach the fins to the rocket.

**h.** Line up the fins with the marks on the bottom of the body tube. Tape all fins securely in place.

Your rocket is now complete and ready to launch. The great thing about these rockets is that no matter how they’re built, they will fly! Some of course will fly better than others, but they all will fly to some degree.