

# Air Rocket Assembly Instructions

## Air Rocket Assembly – Forming Body Tube

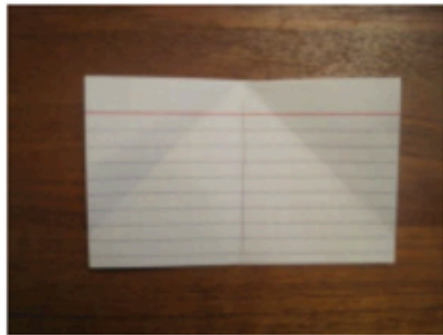
- Cut paper rectangle to needed size
- Roll paper around length of  $\frac{1}{2}$ " PVC pipe to form, tape the ends to hold the shape
- Tape the body lengthwise, be aware that if ends are folded inside the tube will have a tighter fit onto the launcher pipe



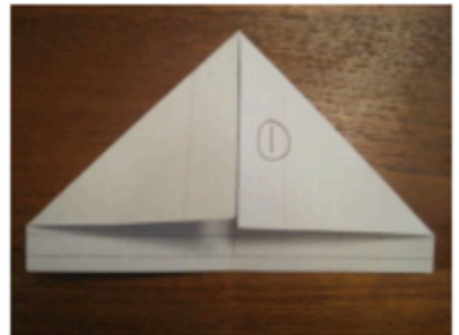
Air Rocket Design, Ravel/Sneider 2015FEB



## Air Rocket Assembly – Forming Nose Cone



1. Fold paper on midline and diagonals



2. Fold corners to midline



3. Cutoff upper right triangle



4. Fold on midline and tape

esign, Ravel/Sneider 2015FEB

## Air Rocket Assembly – Attaching Nose Cone



1. Slide nose cone into body tube



2. Draw circle where nose cone touches tube: draw dotted line circle a little less than an inch further. Cut off excess paper below the dotted line.



3. Cut nose cone edge into 5-8 flaps

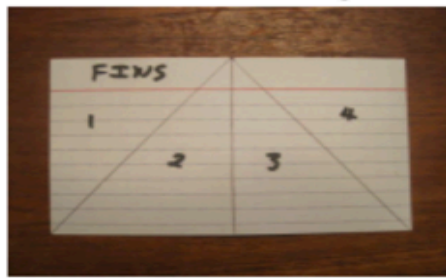


4. Bend flaps against tube and tape snugly and smoothly

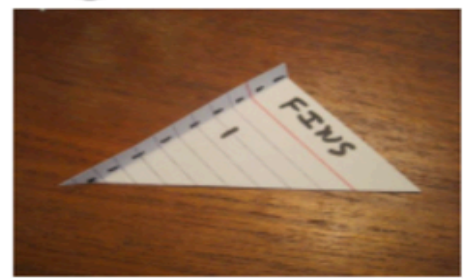


Air Rocket Design, Ravel/Sneider 2015FEB

## Air Rocket Assembly – Forming the Fins



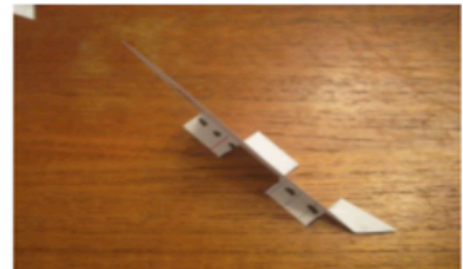
1. Mark and cut 4 equal triangles



2. Mark and Fold a 1/4" tab onto each fin



3. Mark and cut 4 equal flaps into fin



4. Bend tabs outward in alternating order

Air Rocket Design, Ravel/Sneider 2015FEB

## Attaching the Fins to Body



1. Gather fins and body tube



2. Align fin parallel to body tube and tape/glue in place



3. Check fin parallel is aligned straight in vertical directions. Tape/glue the additional fins equally around body tube