

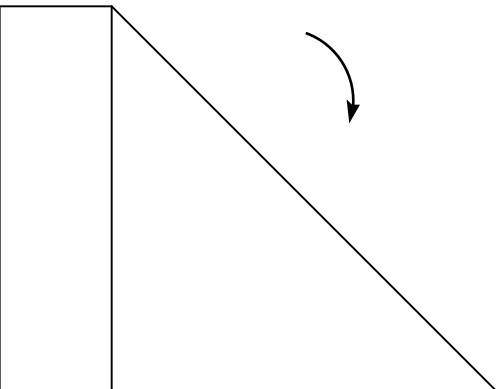
## **ALEX'S KLINGON BIRD-OF-DRAY**

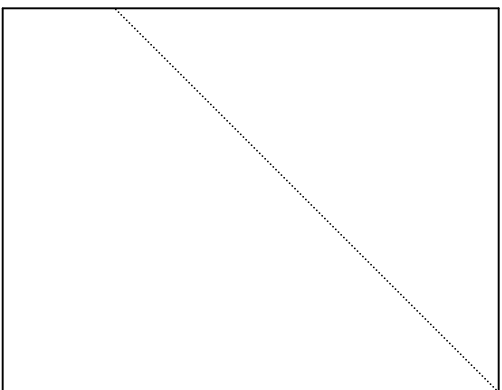
Alex Mobashery is a seven-year old boy from Birmingham, Michigan (fall of 2002). He is a second grader at the Roeper School in Bloomfield Hills, MI. Alex enjoyed the paper plane exhibit at the Cranbrook Science Museum over the summer of 2002, to which he returned many times over several weeks. He subsequently conceived and designed many paper planes of his own. The following paper plane is one of his designs. Alex can be reached through his dad's e-mail address: [som@chem.wayne.edu](mailto:som@chem.wayne.edu)

**Step 1. Start with an 8.5 x 11 inch paper.**

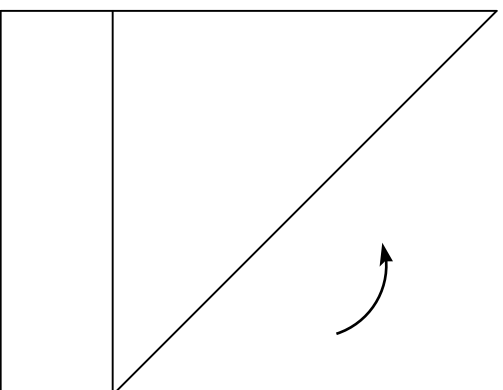


**Step 2. Fold the upper left-hand corner in the manner shown.**

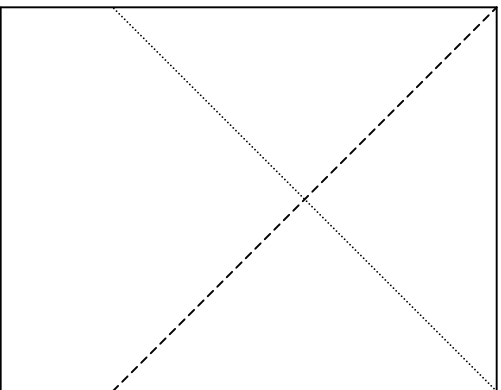




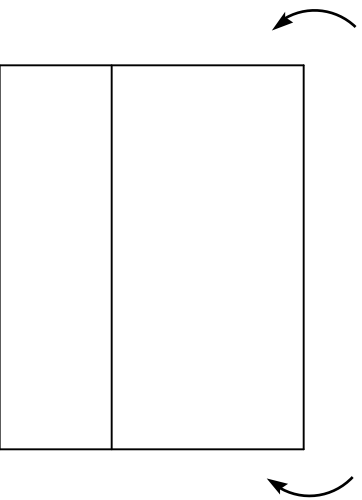
Step 3. Open the fold back. The crease is show as the dotted line.



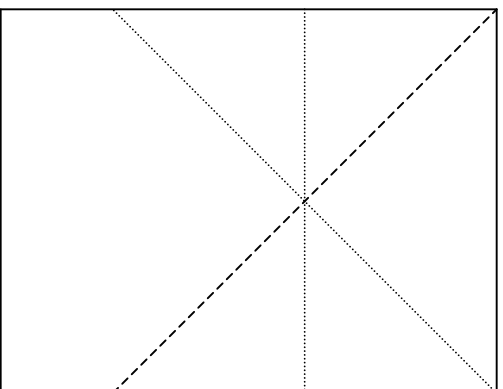
Step 4. Fold the upper right-hand corner in the manner shown.



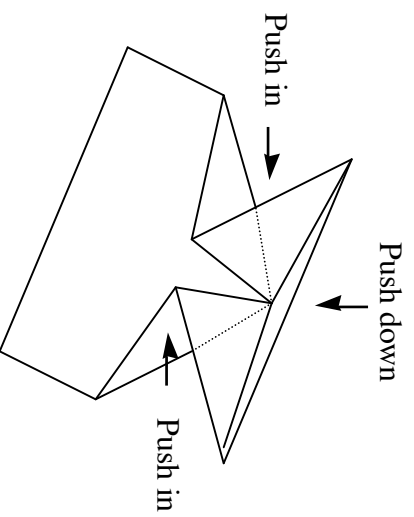
**Step 5. Open the fold back. The crease is shown as the dotted line. The two creases cross each other.**



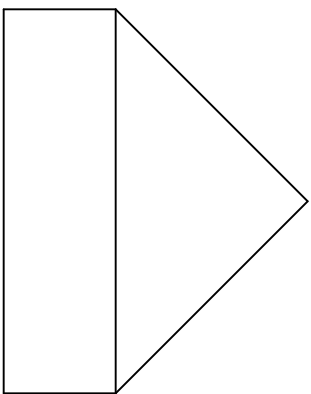
**Step 6. Fold the top of the page such that this fold crease runs along the intersect between the two previous creases.**



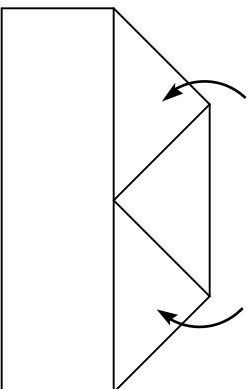
**Step 7. Open the fold. Now there are three intersecting creases.**



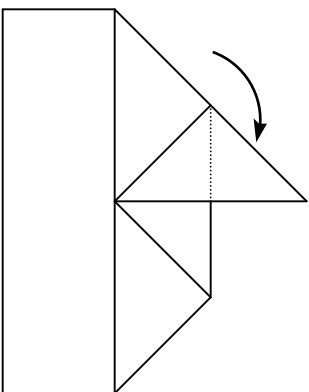
**Step 8. This is a water-bomb fold. The top of the page will be lowered, with the sides pushed in. The intersect point of the three creases will become a pointed tip.**



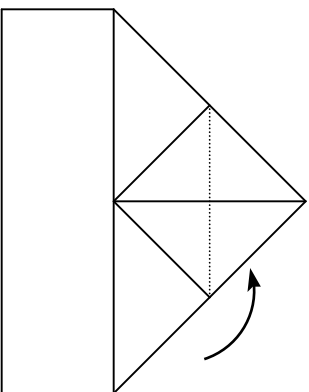
**Step 9.** After the successful execution of the water-bomb fold, the top view of the paper should look like the image to the left.



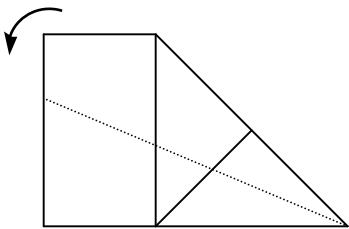
**Step 10.** Fold down the top in the manner shown to the left.



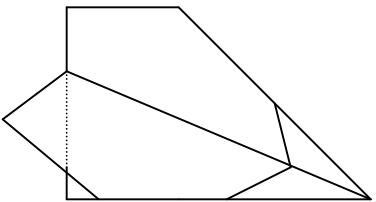
**Step 11. Flip the top left layer of the water-bomb fold back up along the central triangle as shown.**



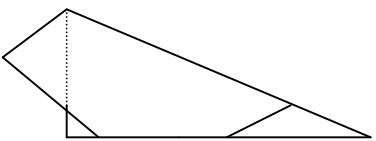
**Step 12. Repeat step 11 for the right-hand side.**



**Step 13.** Fold the assembly in half as shown. Then, prepare to fold the right wing along the dotted line.

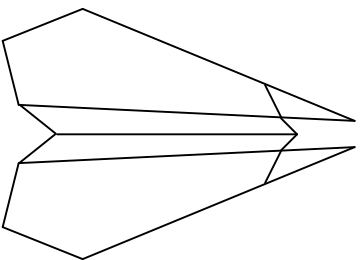


**Step 14.** After folding the right wing, the plane should look as shown to the left.

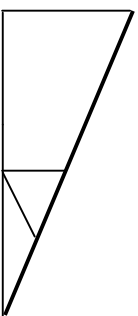


**Step 15.** Then, fold the left wing in a symmetrical manner.

**Step 16.** The plane is ready.



Top view



Side view