


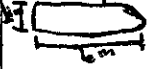

Excellent!
(4+)

Ryan K.
6-3-15

Wind Energy

Me and Zachary started out with a really bad design. It looked like this . This design got 0.00 volts. It didn't even move. I think this is because the bottom of the blade is too flat, and because it's too tall and there isn't enough cardboard at the top to catch the air. And there was too much tape which made it too heavy. We soon realized this and tried to make a better shape. This is what we came up with.

wow!
BIG
increase!

 This design was much better. It had an output of 1.12 volts. This blade was shorter, it had less tape and it was almost the same thickness the entire blade. Now that we had a good blade, me and Zachary tried angling the blade. This made a small difference. We angled it about 60 Degrees and the output was 1.28 volts. Then we wondered what would happen if we didn't angle it at all. We tested it and we got 1.32 volts. We found out later that they were actually angled barely, like 5 \rightarrow up \cup degrees. We did another one of those tests and got 1.31, this put us in second place. But me and Zachary knew that we could do better. Working really hard on all the variables we came up with a whole new design, this .

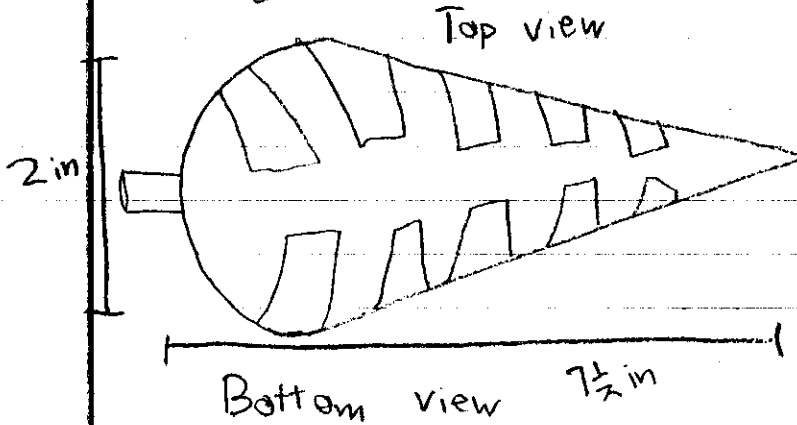
wow!

😊

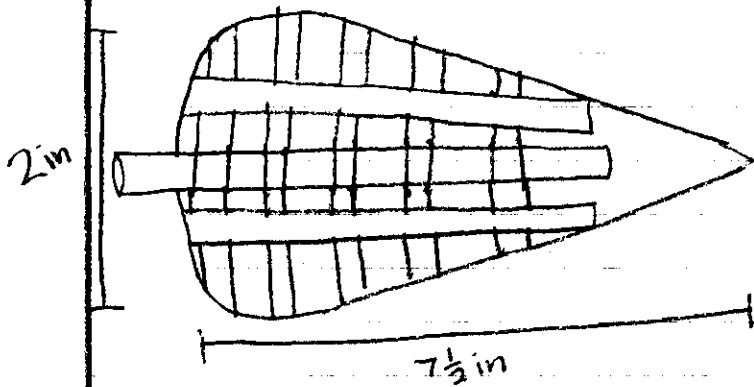
This design worked so well. We got an output of 1.73 volts! The highest in the entire school! This design worked so well because we used barely any tape, the tip is small but it still catches air, the edges are really smooth and there is a lot of cardboard to catch the air but then it quickly releases \rightarrow

it, We barely even turned it. Building these wings was really fun. Fun a more detailed drawing of the wings, look below.

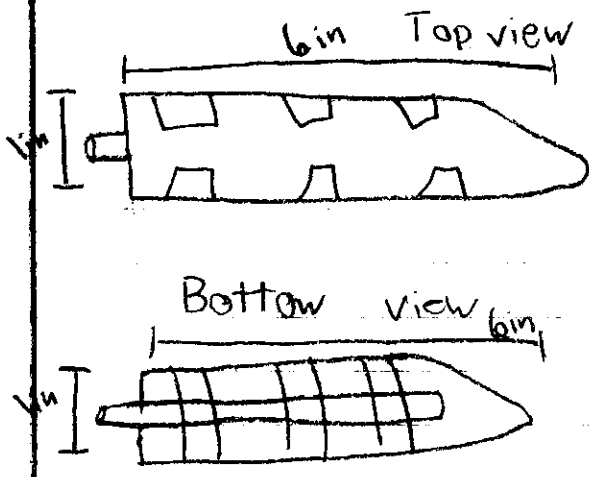
Design #1



Excellent diagrams!
You are an engineer.



Design #2



Design #3

