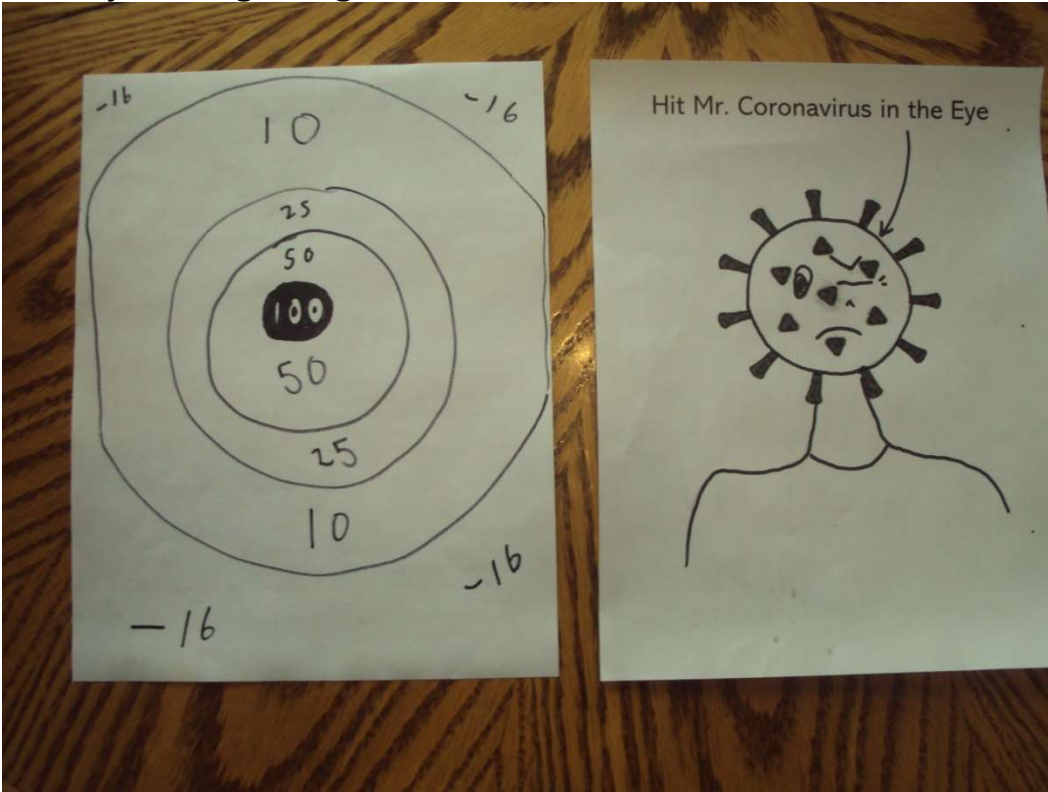
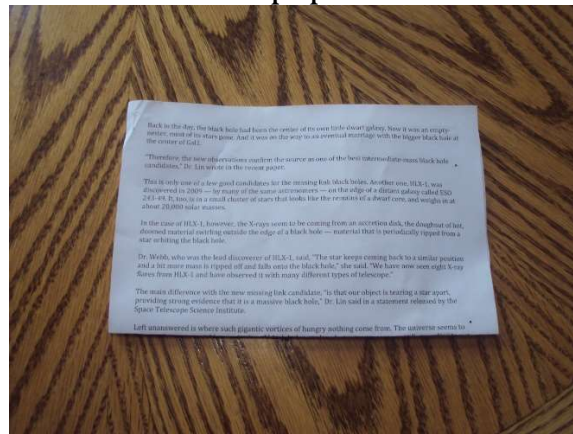


Paper Rocket Design Lab

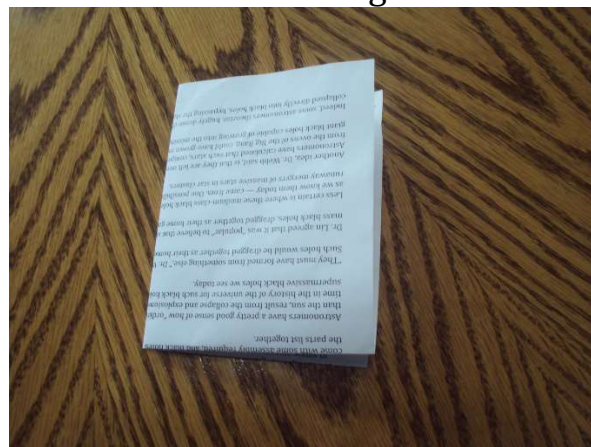
Start by making a target



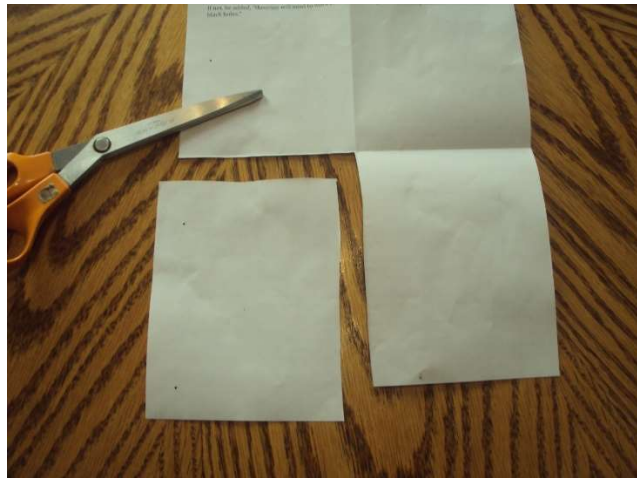
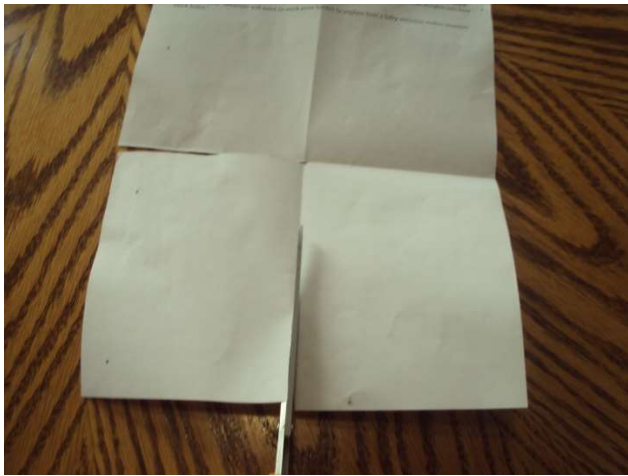
Get a different sheet of paper and fold it in half...



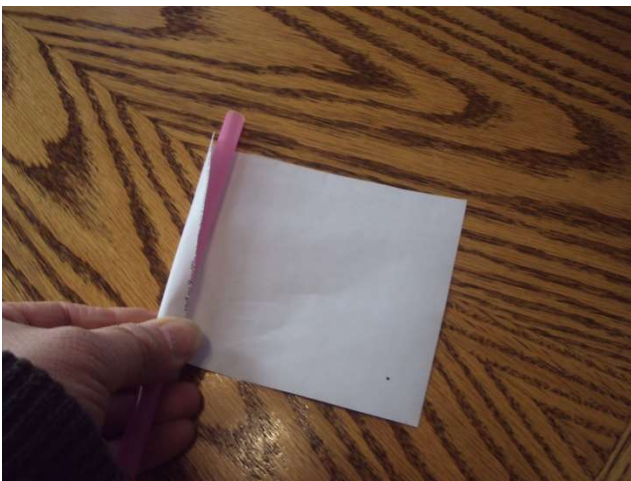
... and half again.



Open it up and cut out one of the quarter pieces.



Roll the piece of paper around a straw . . .



Use 2 or 3 pieces of tape to hold it together.



Slide it off the straw.



Pinch one end closed, fold it over, and tape it.



You are now ready to test your paper rocket.

Hang up your target.



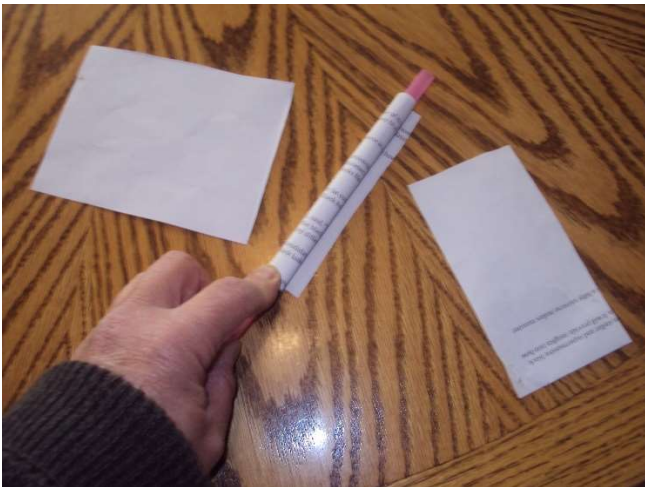
Slide your rocket back onto one end of the straw . . .



. . . and blow in the other end of the straw with a short burst of air. Depending on how tightly you wrapped the paper, you may need to experiment with how far down onto the straw to push the rocket.

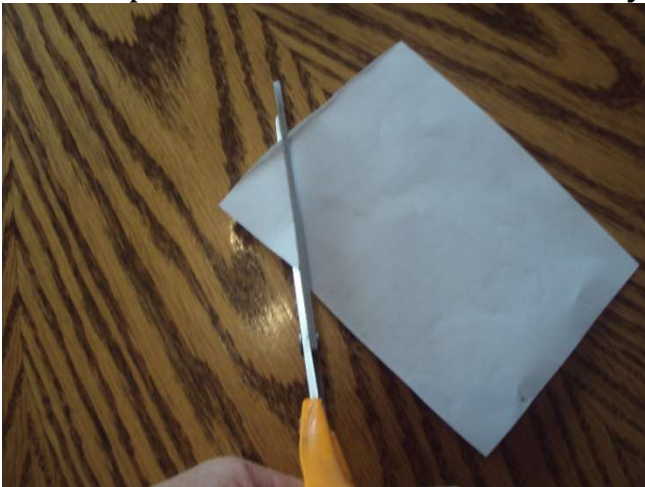
See how far back you can stand and still hit your target. Can you get a bullseye? Can you hit it 3 times in a row?

Experiment by making rockets of different lengths.

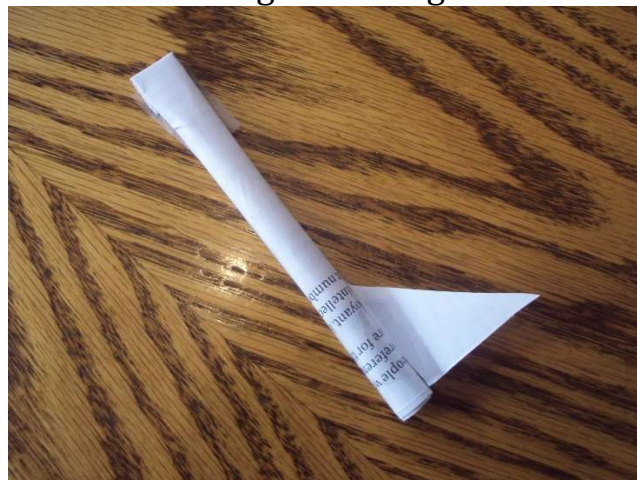


Test these. Does one go farthest? Is one more accurate than the others?

Next, experiment with different fins on your rocket.



A single fin design:



A double fin design:



Experiment with different numbers, styles and/or positions of fins.



Which design goes the farthest? Which is the most accurate? What is the great distance away from the target that you can stand and still hit the bullseye three times in a row?