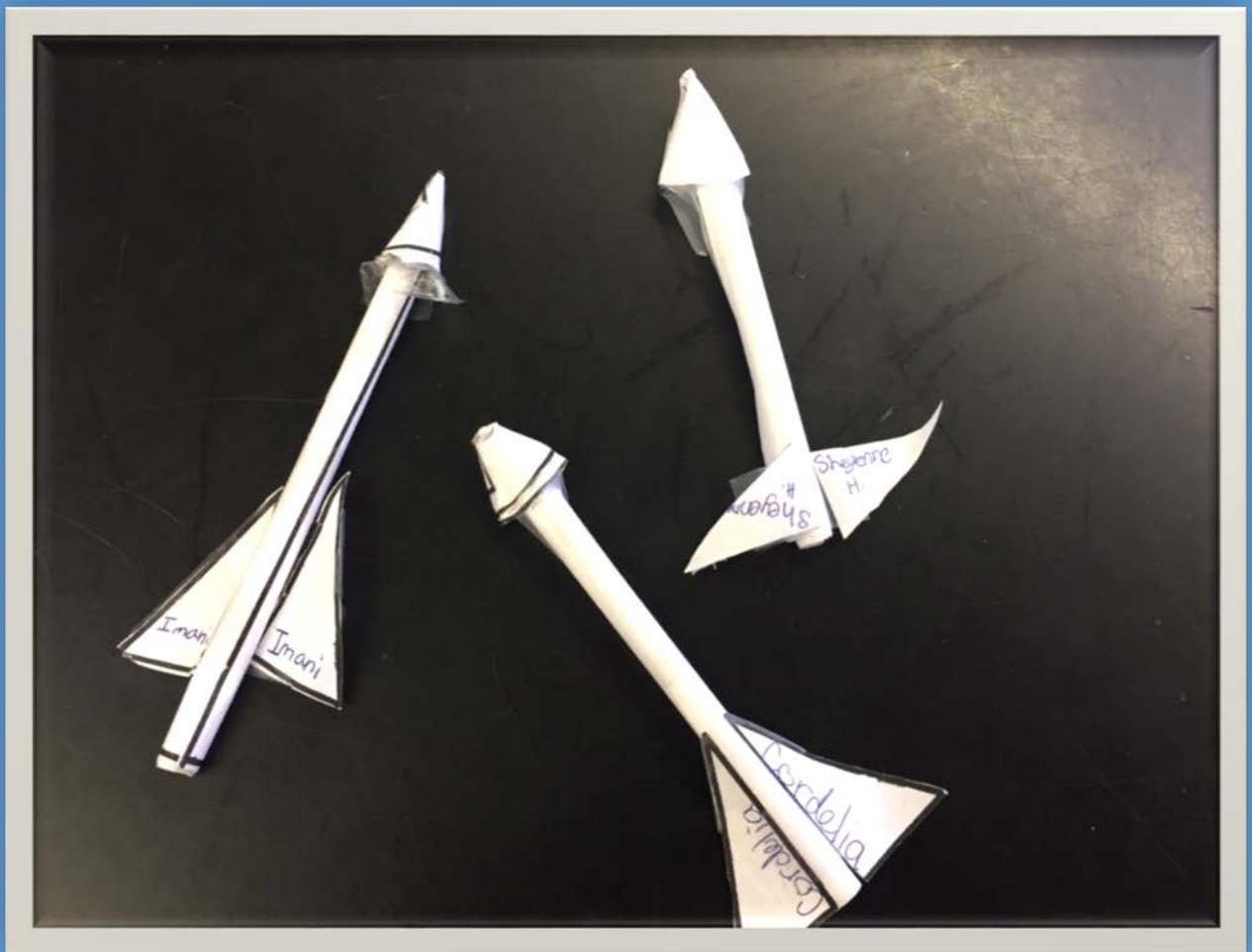


STEM Rockets

Easy to Make Paper Rockets
Pattern , Directions and
Engineering Activity Included
with a Recording Sheet.



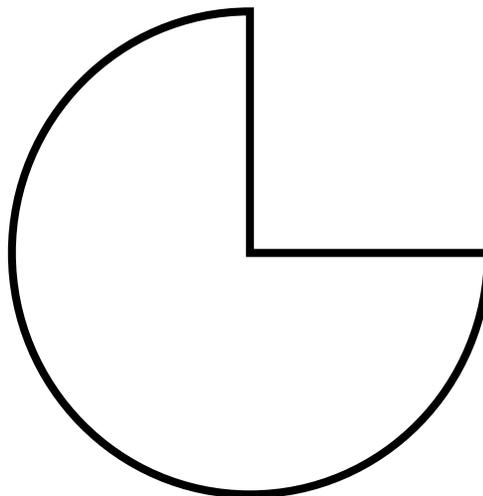
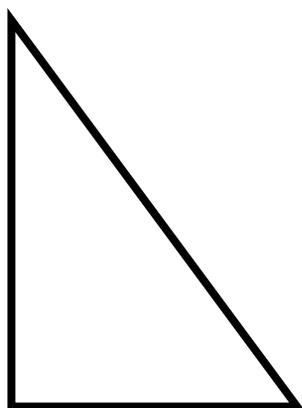
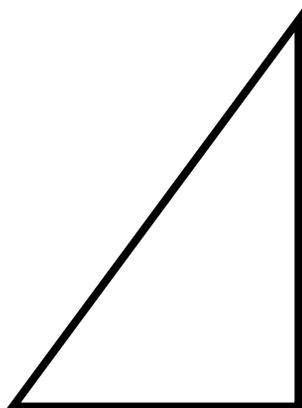
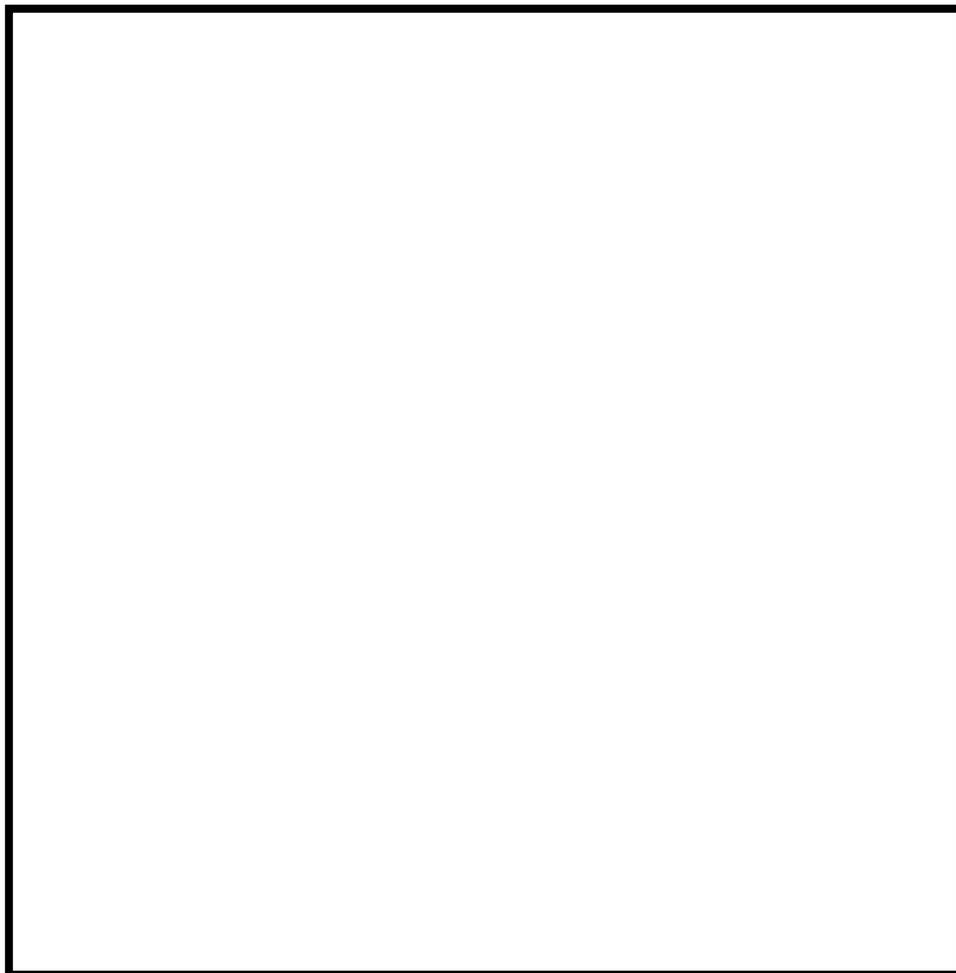
Sarah Tharpe Winchell 2016



Testing the rockets is fun!
Especially if you can do it
outside on a beautiful day.



Paper Rocket Template



How to Assemble the Rocket

You will need:

A No.2 Pencil

Scissors

Clear Tape

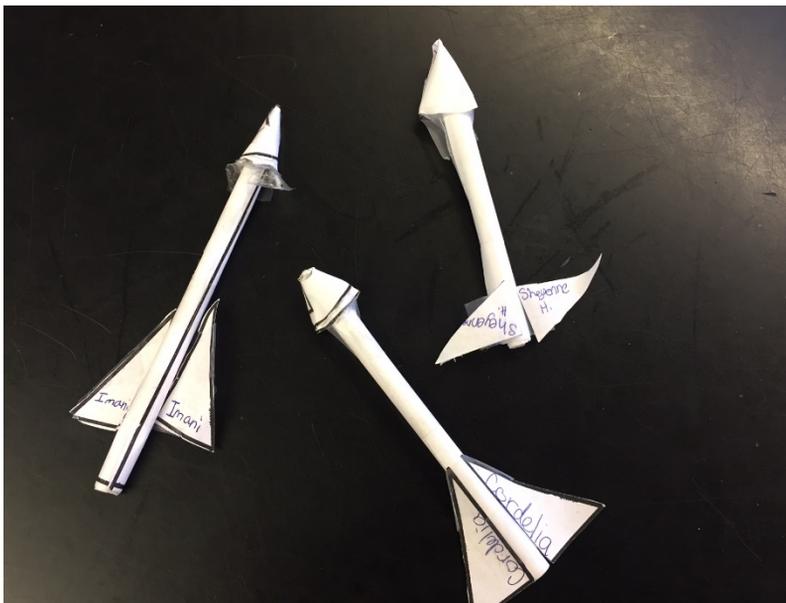


Cut out the square. This is the barrel of the rocket. Wrap the square tightly around a pencil. Keep the paper around the pencil until you have secured it with tape.

This is very important!!! Slide the barrel off of the pencil. Set this part to the side. Do not mash it!!

Take the circle with $\frac{1}{4}$ cut away and twist it around your finger until it makes a cone. You want this cone to fit tightly over the barrel at one end. Tape the cone before you let go of it. Then tape the nose cone to one end of the rocket barrel.

Then attach the tail fins with the clear tape. One fin on each side of the barrel.



Name: _____

Fly the Rocket



You will need a straw and safe space to test fly your rocket. You need to make sure that no one is in front of you when you fly your rocket. (Do not put your rocket in your mouth. Dampness will collapse your rocket and add weight.)

Try flying your rocket with the straw extended straight as close to an 180 degree angle as you can. Try flying your rocket with the straw at a ninety degree angle. Then try to fly your rocket with the straw as close as you can get it to a 45 degree angle.

How did the flight change as the degree of the angle changed?

Trying changing the force you put on your rocket. This means you use more or less breath. What happened to the rocket's flight?

Do you think you could increase your rocket's flight? What would you change?

Test your idea by changing the rocket design. What happened?