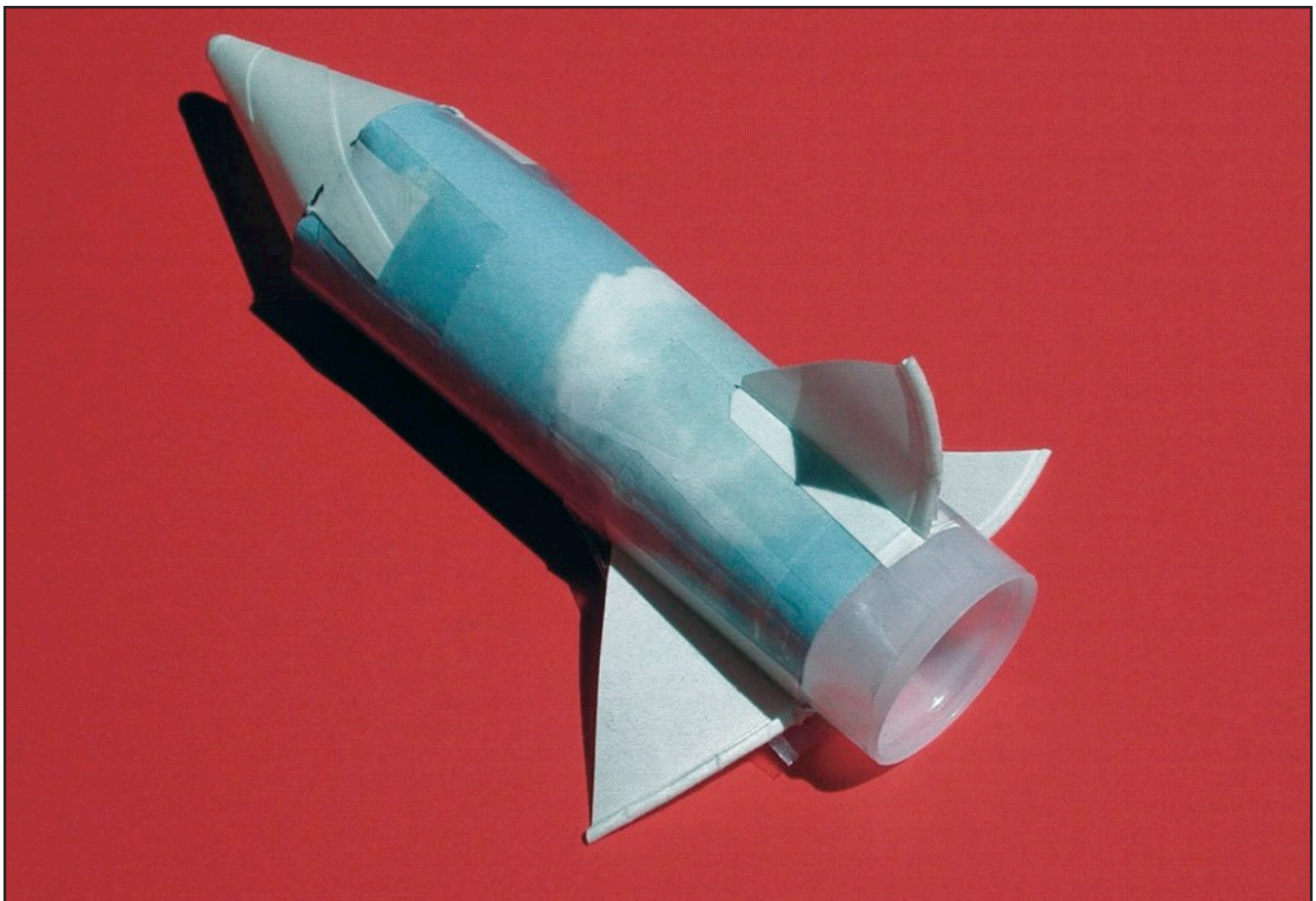# REDSTONE
Hands-on Option One

THE FIZZY FLYER

The Completed Rocket

OBJECTIVE: This "Fizzy Flyer" is designed to be an entry-level rocket. It is a rocket that is incredibly easy to build, incredibly cheap to operate, and incredibly fun for cadets.

MATERIALS:
1. 4" X 4" Piece of paper
2. 1 cone shaped paper drinking cup
3. Tape
4. Scissors
5. Alka Seltzer or other effervescent antacid tablet
6. 35mm film cannister with lid that fits inside cannister
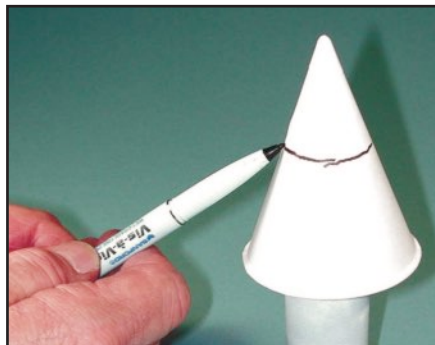

PROCEDURE:
Cut a sheet of paper to 4" x 4".
Apply tape to two sides of the paper as shown.

Remove lid from cannister and tape one edge to the open end about 1/2" up from opening.
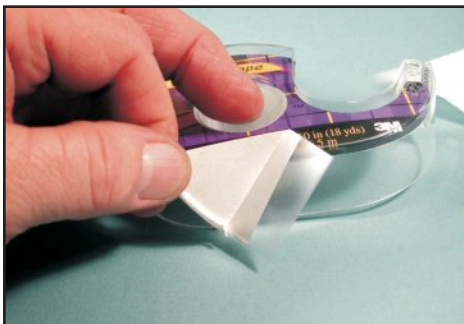

Carefully wrap the paper around the cannister to form a tube. Press the remaining taped edge to seal the tube.

A common cone drinking cup is placed on top of the tube. By holding the cone and tube up to a light, you will be able to see the top of the tube inside the cone and mark it as shown.
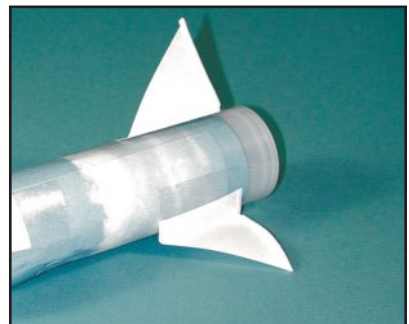

To attach the nose cone, leave little tabs so that you can tape it to the rocket's tubular body. The base of the drinking cup now becomes the rocket's nose cone.
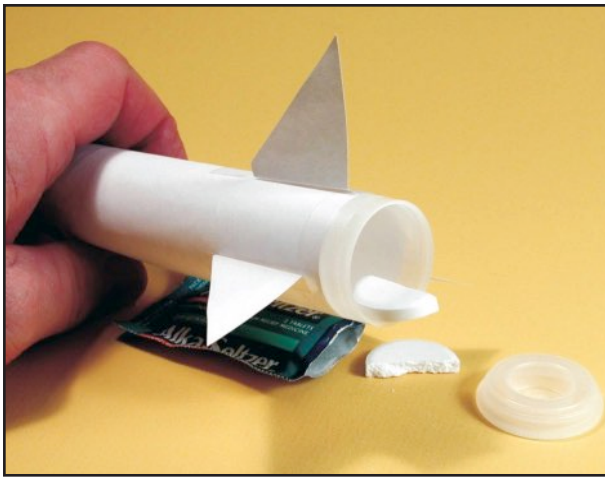

You can make tail fins from the remainder of the drinking cup, or from the remainder of the paper from which the tubular body was cut. Put tape on the fin as shown. Heavier paper such as card stock or surplus/unneeded business cards also work well.

The fins are taped to the bottom of the rocket body next to the cannister opening as shown. This one was made from the remainder of the drinking cup.
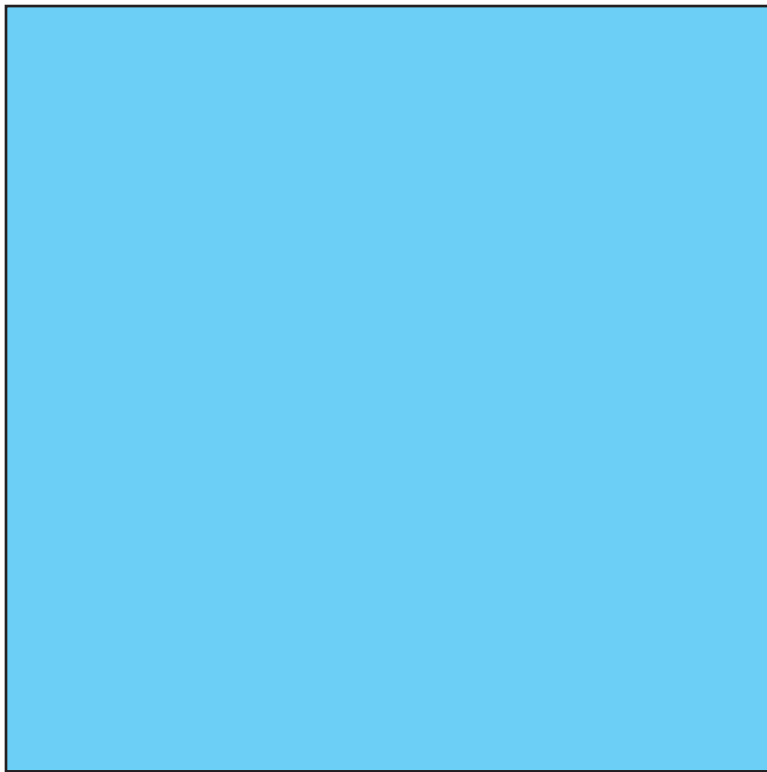

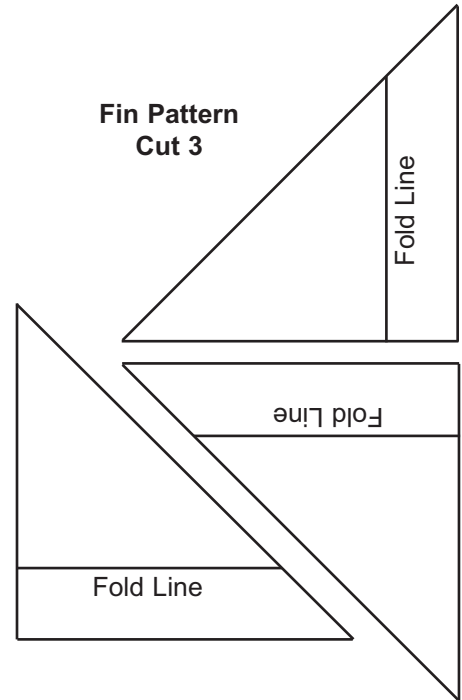Tape 3 fins to the rocket base equally spaced around the circumference.

A trash bag on a table or the floor makes a good launch pad and easier clean-up.

You are now ready to load the "fuel." Hold the rocket nose down, pour in 1 teaspoon of water and drop in 1/2 Alka Seltzer®. Press on the cap and position the rocket on the trash bag and wait. Countdowns are optional because it's a little difficult to tell when the Fizzy Flyer is going to take off. But that's part of the fun.
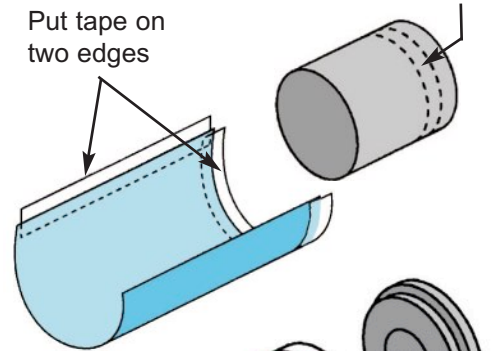
**Fin Pattern
Cut 3**

Fold Line

Fold Line

Fold Line

4" x 4" Pattern
for Body of Rocket

Tape the paper to the film cannister here.

Put tape on two edges

For better results, use heavy weight paper, approximately 60 lb. cover stock. It can be purchased at any office supply store.
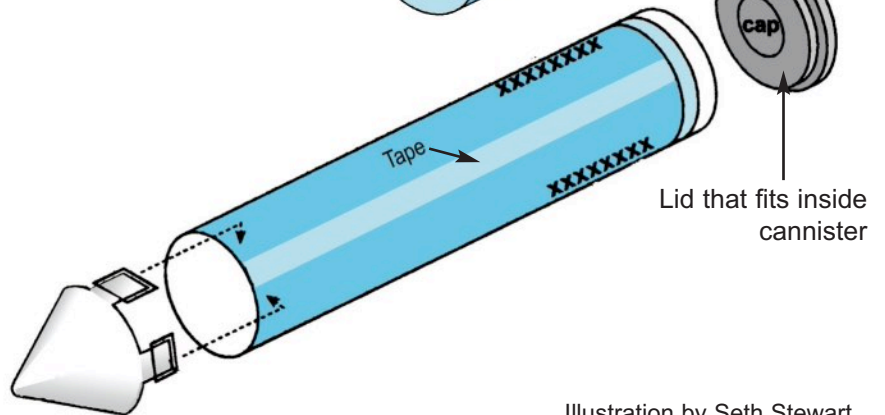
Tape

cap

Lid that fits inside cannister

Illustration by Seth Stewart