

CELEBRATION SELTZER ROCKETS <http://www.kidsdomain.com/craft/seltzerrockets.html>

These rockets can't burn anyone! You make them before you fly them. **Parental supervision is recommended.**

What You Need

- Film canister with snap on lid (Fuji)
- Toilet paper roll (double roll size, preferred)
- Construction paper
- Scissors
- Scotch tape
- Markers, crayons, or paints
- Stickers, optional
- Alka-Seltzer tablets (generic works fine)
- Water in a container
- Eye protection (glasses)

How To Make It

1. Cut straight up the side of the toilet paper roll.
2. Insert the film canister at one end, making sure the end with the lid sticks out about 1/8".
3. Tape along one edge of the toilet paper roll onto the film canister. Roll the toilet paper roll around the canister and tape tightly into place.
4. Cut a circle out of construction paper, cutting a pie shaped wedge out of the circle. Experiment with different sizes of circles to see if it makes a difference in how the rocket reacts upon launch.
5. Roll the paper into a cone shape and tape onto the other end of the toilet paper tube.
6. Decorate your rocket with markers, stickers, crayons, or paints.
7. Cut 4 squares out of construction paper to make fins if you wish. Tape on to lower sides of rocket.
8. Take outside: the rocket, water, Alka-Seltzer tablets, and eye protection.
9. Put on your eye protection.
10. Turn the rocket upside down, remove the lid from the canister, and fill 1/4 full with water. Drop in tablet and immediately replace lid and set on ground. Back up!

Experiment with using one or two tablets into the canister to see if it will shoot up higher. Be sure to look for the tablets after the rocket fires, we were able to reuse some of them a couple of times. Be sure to rinse off your driveway or sidewalk after finishing with your rockets.

Tips (Tatanka District, Sam Houston Area Council September 2002)

DO NOT use vinegar and baking soda. They react far too quickly. Use 1/4 to 1/3 Alka Seltzer and water.

Cold water reacts much slower than Hot water.

Staple a toilet paper tube to a small paperplate to act as a mortar tube.

Be sure to place the canister upside down into the tube and don't look down into the tube while waiting for it to pop.

This is a good outdoor event because it can get rather messy.

By the way, the FUJI film canisters (white or clear) work better than the KODAK gray canisters.

ROCKET SHIP BANK Tatanka District, Sam Houston Area Council September 2002

MATERIALS:

- potato chip can
- contact paper
- 3 Popsicle sticks
- colored paper or
- glue

Remove the corrugated paper on the inside of the can.

Cover the outside with colored paper or contact paper (you may want to decorate it before attaching it to the can).

Invert the can so the plastic lid is on the bottom of the rocket for easy removal of the money.

For the nose, cut a 2 1/2" circle of colored paper and remove a pie-shaped wedge.

Over-lap it and glue the ends to form a cone.

Glue the cone to the top of the rocket.

Have an adult cut a vertical coin slit near the top just under the cone.

For the rocket fins, cut three evenly spaced vertical slits about 1 1/2" above the bottom of the rocket.

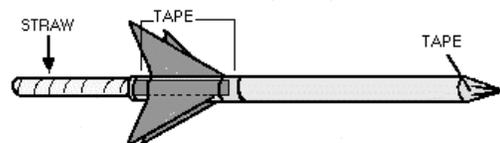
Insert the sticks at an angle and add glue to where the stick meets the rocket body.

Cover each stick with colored paper that's a little wider than the Popsicle stick and glue it in place.

PAPER ROCKET

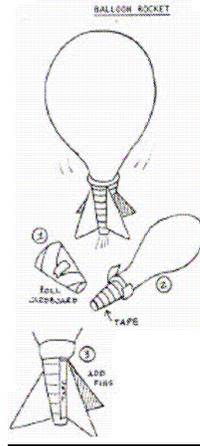
Cut a rectangular strip of paper about 5 inches long and roll it tightly around a pencil. Tape this cylinder and remove the pencil. Cut about 5 1/2" cuts straight into the cylinder at one end. Insert the pencil again, and mold the cut ends around the pencil point so you form a rocket point. Tape the rocket point with clear tape. Remove the pencil again. Cut four triangular shaped fins and fold over 1/4" on one edge of each. Tape these, spaced evenly, around the lower edge of

the cylinder. Slip a straight (non-bendable) straw inside the cylinder, point the rocket in a safe direction and launch it by blowing through the straw.



Balloon Rocket

1. Roll a 4" x 5" piece of stiff paper into a shape like an ice cream cone. Use tape to hold in place. This is the rocket engine. Cut larger end to fit tightly inside balloon neck.
2. Tape balloon and engine together. Wrap tape around engine to close up air leaks.
3. Blow up balloon. Let it go straight up. Trim off the top of the engine a little at a time until the balloon rises straight and steady.
4. Tape paper fins in place to help the balloon fly steady.



VINEGAR ROCKET LAUNCHER

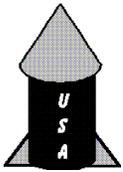
MATERIALS: a cork with streamers tacked to it, a one-quart bottle container, ½ cup of water, ½ cup of vinegar, baking soda. Put one teaspoon of baking soda on a 4x4" piece of paper towel. Roll up the paper towel and twist the ends. Drop the paper into liquid mixture

inside the bottle. Place the cork on top and stand back and watch. The baking soda reacts with the vinegar to produce carbon dioxide gas. As the gas forms, pressure builds up. Soon comes the "pop" and the rocket (cork) is launched. Turn the bottle on its side resting across two parallel pencils so you can see the

recoil in the opposite direction. This makes a cannon.

FILM CANISTER NECKERCHIEF SLIDE

Materials:



film canister
pipe cleaner
hot glue
small pieces of heavy paper
paint pen or fabric paint

- Poke holes in the back of the canister and string pipe cleaner through the holes to form a ring for the neckerchief.
- Cut one piece of heavy paper into fins and attach to one end of the film canister.
- Take another piece of heavy paper and fold into a cone shape.
- Attach this to the other end of the film canister.
- Use a paint pen or fabric paint to write "USA" on the side of the canister.

WOODSIE ROCKET SLIDE

Materials: oval "Woodsie" piece, triangle "Woodsie" piece, ring, decorating materials (paint, markers, etc.), wood glue

Assemble "Woodsie" pieces as shown. Decorate to look like a rocket. Glue ring on back.