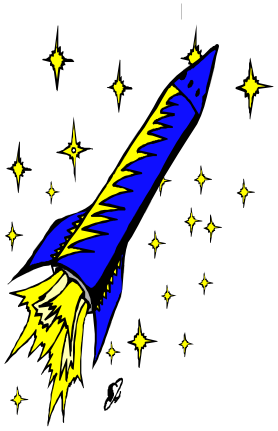
GAMES
SEMPTEMBER #2

BOTTLE ROCKET

Materials: Thin string
tissue paper
straw
masking tape
1 liter plastic soda bottle with top
baking soda
1/4 cup of vinegar
hammer and nail

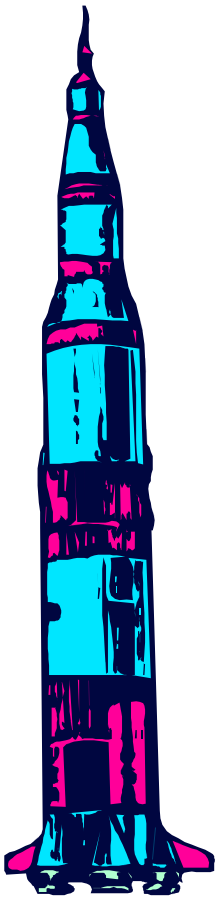
Take all the materials outside. This activity can become pretty messy.



Make a small hole in the bottle top (Use a nail and a hammer). Thread the string through the straw.

Tie each end of the string to something stationary so that the string is straight and tight.

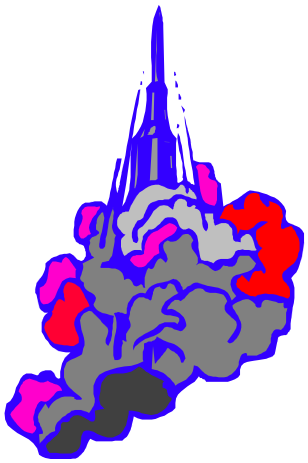
Pour the 1/4 of a cup of vinegar into the bottle.



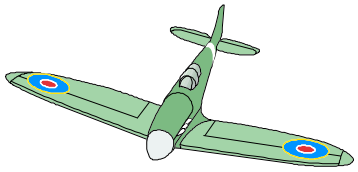
Tape the bottle to the straw.
Put a few teaspoons of baking soda on the tissue square. Roll up the tissue so the baking soda stays inside.
Gently place the tissue inside the soda bottle. Then quickly screw the top on.

Move the bottle to one end of the string. As you move the bottle, shake it so the baking soda and vinegar mix together. Watch what happens.

When you mix baking soda and vinegar, a gas called carbon dioxide is made. This change is called a chemical reaction. In a chemical reaction, substances that are mixed together react or combine to form a new substance, which is different from the original chemicals used to make it. In this chemical reaction, you mixed a solid (baking soda) and a liquid (vinegar) to get a gas (carbon dioxide). The carbon dioxide increased pressure in the bottle and make it move across the string.



GAMES
SEPTEMBER #3

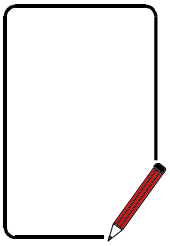


MAKE A GLIDER

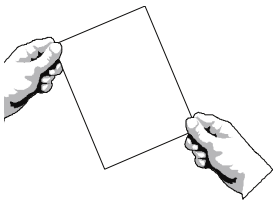
A glider has wings and a tail like a plane. It has two sets of flaps on the wings and tail to make it move in different directions.

Materials: Stiff paper (11 1/4" to 5 1/2 inches and 10 x 1 3/4" Drinking straw. Tape scissors paper clip glue pencil.

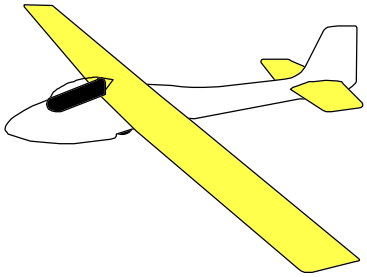
1. Fold the larger piece of paper lengthwise from one edge and roll beyond the side sections to make a rudder.
Tape the long edges together.
Cut two 1/2" slits in the edge.



2. Cut and fold the second piece of paper. The middle section should extend 1/2" beyond the side sections to make a rudder.



3. Tape the wings and tail to a straw. You can distribute the balance as the straw and test your glider. Attach more paper clips until the glider flies smoothly.



4. The wings give stability across the glider. You can distribute the balance as much as you need by moving the tabs on the wing edges up and down.

5. The tabs on the tail are called elevators. They control whether the glider climbs or dives when it flies. Adjust them to see what effect this has.

6. By adjusting the rudder, plus the wing tabs and the elevators, you will be able to make your glider turn either to the right or left.

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Materials used for the above examples

Space Construction, Troglodytes
Make a Glider,
Bottle Rocket
Cub scout troop 498, Ambridge Pennsylvania
The Usborne Big Book of Experiments
Kitchen Chemistry, By Lori Andres
All Graphics from The Print Shop Pro Publisher, Broderbund, Version 6

THEME MIDWAY
SEPTEMBER #2

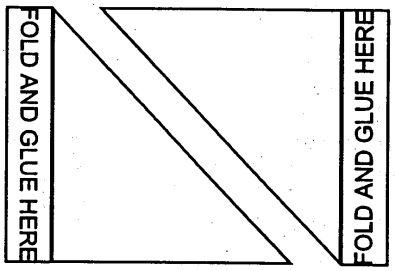
ROCKET WITH LAUNCHER

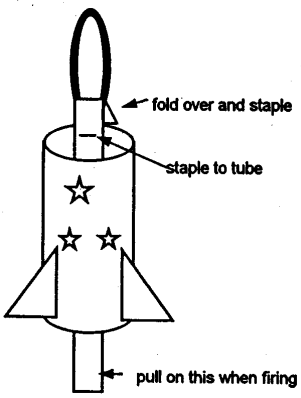
SUPPLIES

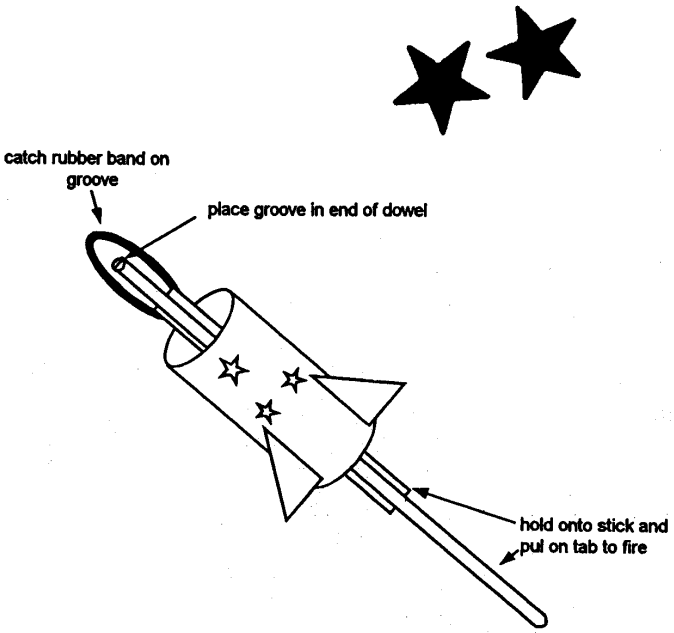
Paper toilet paper tube
Dowel 1/3" to 1/2" size, 18 to 24" long.
Piece of poster board 8" x 1"
Heavy rubber band
Small stapler
Construction paper for fins
Hot glue gun
Markers, stickers
Sharp knife

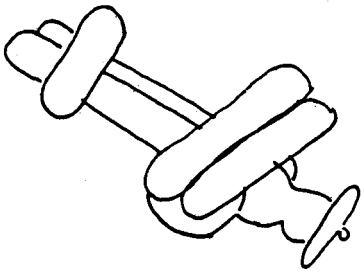
INSTRUCTIONS

1. Fold over 1" on end of posterboard strip.
2. Place rubber band in fold and staple down.
3. Place strip inside tube and staple in place at both ends making sure the part without the rubber band sticks out at least 2"
4. Attach fins to your rocket with glue. Decorate how you like.
5. Put a small groove in the end of the dowel.
6. To Fly: Place dowel through rocket and attach rubberband to groove. Pull back, and let fly!









Paint the clothespin for Body of vehicle. Use wooden wheels of large buttons for wheels. Popsicle sticks for wings of plane.

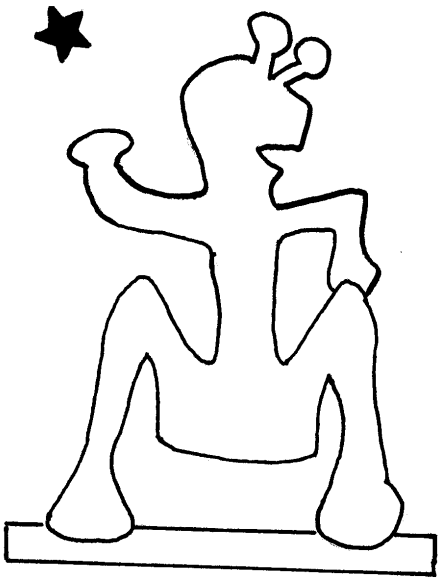
THEME MIDWAY
SEPTEMBER #3

PLANET WORD SEARCH

Note: Words can be found in all directions.

U	R	A	N	U	S	Y	J	M	N
V	R	U	T	O	R	R	U	E	R
H	V	E	N	U	S	A	P	T	S
R	Y	R	C	N	T	H	I	A	E
S	M	R	P	M	E	M	T	C	H
T	E	C	I	U	J	U	E	O	T
M	H	A	M	A	R	S	R	S	R
P	E	U	L	N	A	E	J	T	A
E	N	E	P	T	U	N	E	R	E
T	C	O	P	L	U	T	O	N	S

Find these words: Mercury, Venus, Earth, Mars, Saturn, Jupiter, Neptune, Uranus, Pluto



FLYING BALLOON RACES

Materials:
Two straws One balloon for each child, tape,
Two 8' long pieces of string, two chairs,
Two space characters (included)

Set up:

Copy and color space characters. Tape characters to straws. Thread one straw on each piece of string. Tie strings between two chatrs and pull tight.

To play:

Help children blow up their balloons but do not tie end in a knot. Carefully tape balloon (without letting air out of it) to the straw carder on the string. Children hold the neck of the balloon tight until an adult says "go". Release the balloon and watch it travel through space.

Variation:

Copy a space character for each child. Let each child color his own. Tape space character carefully to a blown up balloon. Let the balloon go and watch the space guy travel through space.