

CRAFTS ON A BUDGET

Boys like to make things, even those molded plastic toys or models put together with glue. The challenge for Cub Scout leaders is to find a craft suited to the monthly theme, holiday, or a special activity which is within the abilities and interests of a Cub Scout age boy, and is fun for them to make.

Finding crafts is not a problem. Cub Scouting literature is full of them, roundtable provides them, and various magazines and books also include suitable ideas.

Check the Cub Scout handbooks and you will find they are filled with an unlimited number of achievement and elective ideas involving crafts.

Help your den pick out the elective or achievement they need or are interested in and get them started on a handicraft project that will help them meet their requirement.

Keep crafts simple and inexpensive. Costly kits of materials are rarely appreciated by the boys any more than simple projects made from scrap material. Since den leaders work with a limited budget, cost is a big consideration.

- **Crafts should be practical.** Learning to braid is fun. Learning the braid a belt which can be used as a costume part is even better. Crafts should have some practical or decorative value and if possible, fit the monthly theme.
- **Crafts should teach some skill** such as carving, modeling, painting, weaving, measuring, etc. Merely gluing pieces together is not enough. Cub Scouts like boy-type crafts. They like to hammer, saw, lace leather and paint. They like to do new things.
- **Crafts should be progressively more challenging.**
- **A variety of material and methods should be introduced through craft projects.**
- **Crafts should seldom require more than two weeks to complete.** A craft project that drags out for a whole month is too difficult and takes up too much time. It may become boring. Start a craft in a den meeting and let them take it home to finish.
- **Be sure the craft project is compatible with the work area.** Take the boys to the garage or outside for messier crafts.

THE CRAFT MUST BE BOY'S WORK, NOT THE LEADERS! In some cases leaders will be wise to pre-cut or pre-assemble certain parts of a craft which may be too difficult or too time consuming for the boys. But boys need to be able to say **I MADE IT!**

Craft Tips And Materials

GLUE - To save money, buy glue in a large container and pour it into smaller containers so each boy will have his own to work with. The best glue for plastic milk cartons is clear silicone. Scotch contact cement is good for wood and paper. Tacky glue is best for Styrofoam. Egg whites make a good adhesive for bonding paper kits. To make a heavy duty glue, mix cornstarch with regular glue until mixture is as thick as desired.

PLASTIC - To cut plastic milk cartons, coping saws or jig saws will cut the thick portion easier than scissors or knives which can be used to cut thinner parts. Use a nail to punch holes in plastic.

SCRAP PLASTIC AND LEATHERETTE - can be obtained from auto upholstery companies as scrap material. Use for Indian costumes, book marks, stool covers, etc.

PUPPET STUFFING - Worn out stockings, old rags, or plastic laundry bags.

CUTTING STYROFOAM - Some types of Styrofoam can be cut with a knife - the kind with a serrated edge which can be used as a saw works best. Heavier types of Styrofoam can be cut best with a coping saw or jig saw.

PAINTING PLASTIC BOTTLES - Mix tempera paint with a little powdered detergent. This makes it adhere to the bottles better. Acrylic paint works well too.

USING FELT TIP MARKERS on plastic - Felt tip markers will work better on plastic bottles if you first sandpaper the plastic lightly. Then spray with hair spray to protect the decoration.

WORKING WITH TIN - Rub the edges with steel wool and you will be less likely to cut yourself on sharp edges.

TO COLOR MACARONI - Buy the cheapest alcohol you can get, put in jars and add food coloring. Drop in dried ingredients until desired color is obtained. Remove with spoon and spread out on paper towels or newspaper to dry. Turn once.

Craft Recipes

SALT CORNSTARCH CLAY - Mix 2 cups table salt and 2/3 cup water in pan. Simmer over medium heat, stirring constantly until mixture is well heated. Remove from heat. Add mixture of 1 cup cornstarch and 1/2 cup cold water. Mix hard. This will make a thick dough. Add food coloring if desired or it can be left white and painted later. Store in plastic bag in refrigerator.

FLOUR CLAY - Mix 1 cup flour, 1/2 cup salt, 3 teaspoons powdered alum, food coloring and a few drops of water. Add a little water at a time until mixture is stiff and holds its shape.

HOMEMADE FINGERPRINT - Add 1/2 cup liquid starch to 1 quart boiling water. Stir over heat until thick. Add 1/2 cup liquid detergent. Stir well. Divide into small jars. Color with tempera or food coloring. Keeps in refrigerator.

POSTER PAINT - Combine 1/2 cup cornstarch with 3/4 cups cold water. Soak 1 envelope unflavored gelatin in 1/4 cup cold water. Stir 2 cups hot water into cornstarch mixture. Cook over medium heat until mixture boils clear. Remove from heat and stir in gelatin mixture and 1/2 cup powdered detergent. Cool. Put in jars for different colors. Add color by using either food coloring, all purpose dye or tempera.

December

Tiny Piñatas

Fill these little pull down piñata with candies or toys. Each piñata is a cup from an egg carton, painted with poster paint. Cut three inch fringes of tissue paper and glue it around inside of rim. Tie a knot in the end of a length of yarn and string it through egg cup. Fill cup and secure contents with a strip of tape. String the piñatas on a pole covered with crepe paper streamers and hang it just out of reach. Attach yarn to pole with tape so piñata will release when pulled.

Candy Gifts

Items needed:

Candy

Peppermint stick candy cane

Nylon netting

Bow

Cover candy pieces in plastic wrap and then tie in a large square of nylon netting or costuming tarlatan. With a bright bow, tie the pack to a jumbo peppermint stick candy cane.

Tin Christmas Lanterns

In Mexico people often light their houses at Christmas with simple tin lanterns. They're decorated with lacy patterns of punched holes. Candlelight glowing through the holes creates dozens of flickering stars.

If you save up an assortment of tin cans and buy a few aluminum funnels, you can make Christmas lanterns for friends and family.

The tin is easily pierced with a hammer and nail if you first freeze water in it.

Cans without ridges are easiest to punch. Fill each one with water to 1/4 inch below the rim and freeze.

Cut up paper bags to make patterns that will fit around the cans. Draw designs on the paper to follow as you punch the holes.

Lay the cans of frozen water on a towel. Wrap the patterns around the cans and tape them down. Hammer evenly spaced nail holes through the lines of the pattern.

You don't have to try to freeze water in the funnels; they're sturdier. Just use a very sharp nail to punch a simple design. Leave the funnel tops on.

In each punched can place a small candle and holder (*votive candles in glass jars work well*). Place the funnel, upside down, over top.

Yule Log

Items needed:

Small log

Pinecones

Paraffin

Evergreen branches

Melt the paraffin and let it cool about a half hour.

Put it on the log in a big soft lump and press the ends of the evergreen branches into it.

Add three or four pinecones.

Decorative Lamp

Items needed:

- Tuna Can
- Candle
- Detergent (*snow*)
- Copper screening
- Decorations

Cut strip of copper screen the height desired and wide enough to fit around the inside of the tuna can.

Staple or sew ends together. Cover seam with tape (*optional*).

For snow: Mix 2 part detergent with 1 part water and whip until stiff. Apply unevenly to can and top of screen with spoon. Mica snow can be sprinkled over moist detergent.

Decorate with Christmas beads, pine cones, evergreens, etc.

Attach candle inside tuna can with small amount of melted wax.

Santa Package Decoration

Items needed:

- Clip-type clothespin
- Paint
- Heavy paper
- Glue
- Construction paper
- Marker
- Cotton

Paint a clip type clothespin.

Use one of the patterns shown.

Cut from heavy paper and decorate.

Glue head to clothespin.

Clip on packages as decorations.

January

How To Make A Snowflake

You can make snowflakes any time of the year. When you use colored paper instead of white, a snowflake turns into a fancy-flake.

Measure and cut 1 square of paper. Fold square in half. Then fold it in half again. Fold it once more into a triangle. Follow the picture directions. Draw a design on the triangle. Cut out the pattern. Open the paper and see a snowflake.

Snowflake Mobile

Make 3 snowflakes, one from a 6" x 6" square and 2 from 4" x 4" square. Punch holes in the flakes as shown. Use thread or string to tie the small flakes to the large flake. For a hanger, tie a piece of thread to the top of the large flake.

Alaskan Snow Mobile

Provide each boy with a "Big Mac" carton (*empty*) and an assortment of materials such as pipe cleaners, golf tees, buttons, screws, wire, cardboard, paint, etc.

Let each boy custom-design his own Explore mobile. They will have a lot of fun using their imaginations in creating this world of tomorrow vehicle.

Eskimo Tie Slide

For the fellow who lives way up in Alaska, cut a cardboard circle, about 2" across. Glue an almond in the center. Draw on eyes, nose, mouth and bangs. For white fur, glue cotton onto the cardboard all around the face. Glue a pop top ring to the back with glue.

Exploring Alaska

Items needed:

- Aluminum pie pan
- Salt
- Assorted small stones
- Leaf (*bean shaped*)
- Toothpick
- String
- Sugar cubes (*optional*)
- Plastic figures (*optional*)

Give each Cub Scout a pie pan. Use spray glue or Elmer's glue (*spread around on surface of pan*). Cover generously with salt. Use sugar cubes to build small igloos. Use regular glue to hold together. A toothpick with a string tied on it will resemble a fishing pole. Use half of a pod shaped leaf to make a canoe. You can purchase figures for an extra touch.

March

Bike Rack Ideas

Glue crosspieces in place on side pieces for stability. They should be placed a tire width plus 1/8 inch apart. Then bolt the crosspieces through side pieces as shown. Let bolts protrude if rack will be on the ground; recess them if the rack will be on a paved area.

Propellers

Buy a plastic propeller.

Cut two equal lengths of strong wire.

Push each length of wire through the ends of a 20-cm long strip of balsa wood.

Cut the end from a ballpoint pen.

Push a short length of wire through the propeller, a bead, the outer case of the ballpoint pen and then make a hook. Connect the wire through the wood to the propeller wire, just behind the pen. Connect the rubber bands to the hook and the back wire. Connect your machine to a length of cotton that is taut and horizontal by bending over the wire as a loop. Wind up your propeller. Release it. Which way did the machine go? Wind your propeller the other way. What happens?

Paper Rowboat

1. Fold a 6 inch square of paper in half. Crease and unfold.
2. Bring sides A and B together in center and fold.
3. Fold points C-D-F-E on diagonal line to center and crease.
4. Fold on dotted lines.
5. Fold again on dotted lines.
6. Turn rowboat inside out. Hold sides carefully to avoid tearing.
7. The finished rowboat.

Motor Boat

With only two pieces of wood and a strong rubber band you can make a boat that will speed through the water.

This boat can be any size you want. Cut it to the shape in the picture and make notches in the back, as shown. Then cut another small piece of wood and make notches in the middle of that too. Your boat will last longer if you put a coat of varnish or paint on it.

Put the rubber band around the small piece of wood so that it rests in the notches. Now you can fasten it to the back of the boat, stretching the rubber band so it fits in the other set of notches. Turn it to wind it up, put the boat in the water and let it go. As the rubber band unwinds, the boat will be pushed through the water.

April

Bunny Basket

A cute party favor for your Easter table or egg hunt! This is also a nice decoration for nursing homes, too.

Items needed:

- White poster board
- Pink, black construction paper
- White spray can cap
- Cupcake liner
- Easter grass

Cut outer ears from white poster board. From pink construction paper, cut eyes and inner ears. Glue the inner ear to the ear. From black paper cut pupils and nose. Glue pupil to eye. Staple or glue ears to back of inverted, white spray can cap. Glue eyes and nose to the front of the cap. Fill cup with a cupcake liner, or Easter grass, and add eggs or whatever you like.

Bottle Jai Alai

Use two 1 gallon milk or bleach bottles for the cestas (*pitching cubs*). Following the picture, draw lines on the plastic where one side and the bottom will be cut out. Be sure that the lines are even. Then use a knife or large scissors, to cut.

Rules: The players stand 25 feet apart (*closer if necessary*). One player puts the tennis ball in the cup and tosses it to the other player who catches it in his own cup. If the other player doesn't catch it and return it, the tosser gets a point. No player is allowed to touch the ball while in play.

Palm Paddle

Trace a dinner plate on a 1/4" plywood or a pine board 1" x 8" x 8" or any paddle type material you have on hand. Cut out the circle with a coping saw and sand the edges smooth. Trace your hand on the wooden circle. Measure enough elastic to hold your hand tight to the paddle, and tack or staple the elastic to the back of the wooden circle (paddle).

Rules: Two or more can play this game. It is probably more fun with four or more. Use a whiffle ball at first and then go on to a tennis ball when you think you want a faster game. Set up badminton net and score the way you would in a badminton game.

Stilts

Tin can stilts, made from two large juice cans and two 6 foot sections of rope are great fun for the outdoors. Cut out one end of the can. In the other end punch two holes just large enough for the rope. Tie the ends of the rope together inside the can. Step on the closed end of the can and hold the rope in your hand. As you lift your foot, pull on the rope.

Boxing Bugs

Cut two figures - beetles, birds, or other animals from stiff paper. Place them on two sticks of the same length as shown. Fasten them with four tacks. Hold the longer end of the lower stick with your left hand. Push and pull the longer end of the upper stick with your right hand. The boxing bugs will eagerly begin the fighting match.

May

Flower Pot Figures

Items needed:

- 3 small flower pots
- Spray paint
- Rickrack, ribbon and beads
- Ribbon
- Wooden bead
- Cardboard disks

A ribbon knotted at the bottom and tied above a wooden bead at the top, holds each figure together. Cardboard disks separate the pots and provide places to attach collars and arms. The crowns are made of rickrack, wood or cardboard disks, centered with the wooden bead. Hanging figures are loose-jointed. Standing figures are more compact.

Clothespin Planter

- A 1 lb coffee can
- 18 clothespins
- 2 rubber bands
- 36 inches of wire

Remove and discard the springs from about 18 wooden clothespins. Place two heavy rubber bands around a 1 pound coffee can and slip the pieces of clothespin under the rubber band. When you have encircled the can with the wood pieces, replace the rubber bands with two 18 inch lengths of wire wound around the two rows of grooves. Twist wire tightly together, clip ends, and bend them down (*small boys will need help with this*). Punch several holes in the bottom of the can for drainage. Varnish or paint the wood. Soil, one succulent plant from the garden, and perhaps some ivy will complete the planter.

Tissue Paper Flowers

A pretty bouquet of paper flowers is fun to make and is a nice gift for mom. Choose a vase or jelly glass that goes well with the flower colors.

Items needed:

- Tissue paper - 3 shades of the same color or 3 different colors
- Straight pins (*hold the petals together*)
- Florist tape (*wrap the pin and stems*)
- Thin wire - cut in 8 inch lengths for the stems

Trace the petal patterns from the drawing using the darkest shade of paper when tracing the outside line and lighter paper for the inside lines. Cut out the patterns and stack them one on top of the other putting the largest petal on the bottom. Stick a pin in the center dot, down through all three layers. Push the petals up over the head of the pin. Then hold the pin tightly against a piece of wire and wrap the florist tape snugly around the pin and the wire as well as the bottom of the petals.

For different looking flowers, cut curvy petals or fringes as the drawing shows.

June 1994

Mobile

Items needed:

- Colored poster board
- String
- Hole punch
- Coat hanger

Using flag patterns, cut out pieces from colored poster board. Punch appropriate holes. Start from top and assemble flag.

Sit-A-Pon - Floor or ground activities are easier to enjoy if you have a soft, dry spot to sit down. Sit-a-pons can be used while camping, hiking or sitting around in a den meeting.

Cut 2 pieces of heavy vinyl 18" square. (*Old shower curtains work well also*).

With a small hole punch, punch holes around the edges about 3/4" apart.

Lash the two pieces together (*wrong sides together*) using twine or cord leaving one side open.

Stuff insides with newspaper, a towel, or old socks. Lash closed fourth side.

Clipboard For Instruction Books

Items needed:

- 1/4" x 13 x 20 plywood
- 1/4" x 10 x 15 plywood
- Plastic hinge
- 2 large clamps
- 1 small clamp
- Bolts

This useful Father's Day gift holds an instruction book open on a working surface and tilts it at a handy reading angle. It has a clip for a pencil on the left side. When not in use the easel can be folded flat and hung from a nail.

Make the board of 1/4 or 3/8 inch plywood (*13 x 19 inches is a convenient size for most books*). To make the clamps lie snug on the board, drill 7/8 inch holes in the board and enlarge them with a coping saw to accommodate the curved springs. Then bolt each clamp in place through one of its eyelets. Bolt a small clamp on the left side to hold a pencil. (*bolts are preferable to screws in thin plywood*).

A piece of plywood, 10 by 15 inches, hinged to the back with plastic or cotton webbing, makes the easel stand. A piece of cord between the two boards will keep them from spreading too far apart.

July 1994

Slingshot

To make a slingshot to shoot pieces of paper, all you need is wire and a rubber band. Twist the wire as shown in the picture and make loops at each end to hold the rubber band. Fold little pieces of paper, make a target, aim, and shoot.

The Tree

Make a tube by rolling a double-page sheet of newspaper from one side to the other; about five inches from the edge, add another double-page sheet. Keep on rolling and add a third sheet. Bring the paper toward you as you roll it. Tap the ends to keep the roll even.

Flatten half of the tube and tear straight down the center.

Flatten the torn strips together and tear down again.

You will now have four torn parts. Each of the parts will have a lot of strips. Separate the four parts and bend the strips out from the tube.

Put two fingers into the tube at the top and with your thumb take hold of a couple of strips where they bend and pull them up gently for a few inches. All strips will start coming up as the tree begins to grow. Take your finger out at the top and work the tree upwards from the outside.

These can be decorated with pine cones, sweet gum balls or other seed pods to give the trees a more real look.

Frontier Rifle

Items needed:

Cardboard tube

1 1/2 quart detergent bottle

Using a knife, make a slit in the center of the bottleneck. Place roll into slit and trace around roll in top of bottle. Cut a small tab 1" x 3/4" for trigger on underside of bottle behind handle. Bend tab down and out. This will make a clicking sound when flipped by the finger. Insert roll in top of bottle and tape in place. Paint rifle adding design to the gun butt to give it an old look.

Painted Totem Pole

You can make a totem pole from a broomstick. Cut a 7 inch long piece off. Smooth it with sandpaper and paint Indian designs on it. Cut hard paper in the shape of double wings, paint them and paste them on the upper end of the pole. For the base, you can nail a polished wooden block to the pole and shellac or varnish the whole thing.

Indian Hat

Collect some bird feathers or cut them from colored paper. Then cut a stiff paper strip, long enough to fit around your head. Cut notches at each end that fit into each other. Line up the feathers in a row on the inside and tape them down.

August 1994

Inner Tube Raft

For a summer full of wet adventures, assemble this simple, inexpensive raft. Paddle it in a lake or float it in a swimming pool.

Items needed:

- Three inner tubes
- 30 feet of nylon rope
- Board as long as the inner tubes lined up
- Drill
- Handsaw

Line up the inner tubes. Lay the board across their tops. With the handsaw, round the corners of the board to prevent sharp bumps when you fall off the raft. Allow no more than 6 inches to hang over the inner tubes at each end. Remove splinters from the board and sand rough edges. You may want to paint your board.

To mark where to drill the holes, lay the inner tubes on top of the board. Keep the marks 1 inch from the edge of the board. Lace rope through the holes, tying the ends so that the inner tubes are fastened securely to the board.

Climb aboard for a floating good time!!

Tin Can Ice Cream

Items needed:

- One 1 lb coffee can with plastic lid
- One 3 lb coffee can with plastic lid
- One 3 3/4 oz pkg instant pudding
- Two 6 oz cans evaporated milk
- 1 to 1 1/2 cups regular milk
- Rock salt, crushed ice, duck tape

Directions:

1. Place pudding mix and evaporated milk into clean 1 lb can and stir well. Add enough regular milk to fill can 3/4 full. Mix well.
2. Cover with lid. Tape lid on securely so can is air tight.
3. Place 1 lb can in 3 lb. can.
4. Add layers of crushed ice and rock salt, making sure smaller can is surrounded with ice and salt on all sides.
5. Put lid on larger can. Tape as shown in picture.
6. Have boys form two lines. They roll can back and forth on table or ground for 15-20 minutes.
7. At this point, carefully untape large can and remove smaller one to check ice cream. Wipe off all salt before removing lid from smaller can.

September 1994

All About Me Cube

Items needed:

Box (*medium to large*)
Paint
Colored paper or old fabric (*enough to cover the box*)
Magazines or photographs
Pencil and paper
Crayons
Glue

Paint the outside of the box, or cover it with fabric or paper. You can do each side differently!

Collect some things that tell about your den. Attach them to all 6 sides of the box. You can use anything.

Pictures or words from magazines, drawings, stories, etc.

Cracked Ice Candles

Items needed:

Half-gallon milk carton
10" candle
1 1/2 lb paraffin
Ice

Cut the top from the carton and rinse out any milk or juice that is left.

Melt the paraffin in a double boiler. For color, add crayon bits. While paraffin is melting, center candle in carton and surround with ice.

When wax is melted, quickly pour all the hot wax over the ice. Let it cool for half an hour, then cut off carton.

Note: Always melt paraffin in double boiler over a low heat. Do not melt wax over direct flames.

Stained Glass Collage

- Arrange assorted, dried flowers, fern, and leaves on a piece of waxed paper.
- Shave crayon bits over picture.
- Add another piece of waxed paper.
- Seal with a warm iron.
- Hang collage in bright window with tape.

October 1994

Button Whirl

Items needed:

- 4 feet of string
- Large button with 2 holes

To make this simple spinning toy, you need about 4 ft of string a large button with 2 holes. Pass the string through both holes and tie the ends so that the button is threaded on a long loop. Whirl the loop of string like a jump rope until it's tightly wound up. Then pull on the ends. The button spins and dances as the string unwinds. If you get the string very tightly wound, the button will hum as it spins.

Flying Bat

Cut this bat of black paper. Fold as shown. Tie one end of a thread around his neck and the other end through the holes in his back. Tie another piece of thread to the center of the first piece and hang up your bat.

Egg Carton Witch Faces

Items needed:

- Paper egg cartons (*one carton makes 3 witches*)
- Black paper
- Glue
- Paint or crayons
- Thread

A window full of witches on Halloween would be a very scary sight.

Cut a 4-cup section from the carton. Using black paper, cut out a high pointed hat and glue it to the top edge. Make big round eyes and a turned down mouth using paint or crayons. Tie a thread to the top of each hat and hang the witches in a window.

Jingle Ghost

Items needed:

- White plastic bottle
- Paper punch
- Needle and thread
- Jingle bell

Cut a ghost shape from the side of a plastic bottle. Punch eyes in the ghost with a paper punch. With a needle and thread, poke a hole in the bottom of the ghost, string a small bell on the thread, and tie the ends of the thread together.

Hang several ghosts on strings where people walk during the Halloween season. The wind will flutter the ghosts and the bells will jingle.

November 1994

Hurricane Lamp

Items needed:

- Window screen
- Fine wire
- Baby food or small jar
- Candle

Form a roll from a 6 1/2" x 10" piece of window screen. Fold edges over with pliers and lace together with fine wire. Paint a small jar for a base. Insert candle. Add the screen wire roll.

Periscope

Periscopes are good for spying. They let you peek over fences, around trees or look down at the sidewalk from a balcony.

Items needed:

- Narrow box no longer than 3 feet (*a shoe box*)
- Two metal mirrors from a sporting goods store
- Masking tape.

Place one of the mirrors on the bottom of one side of the box. Trace around it. Do the same on the top of the other side of the box.

The sketches on the right show how to fix the mirrors in place. You will probably have to adjust one of them to make the periscope work properly. You'll know it's working when you can see out of the top hole by looking through the bottom hole.

To finish up, put the lid on the box. Then seal the edges with masking tape and paint the box.

Rolling Nuts

Items needed:

- Walnut shells
- Marbles
- Felt, scraps of paper
- Glue

Watch these creatures skitter along on marbles. Their bodies are halves of walnut shells. You cut heads, tails and features from felt scraps or paper and glue them to the shells. After the glue dries, set the shells on marbles and let your creatures roll down a sloping board.

Paper Craft

Make A Drinking Cup From Paper

Items needed:
Paper

1. First fold a square piece of paper diagonally once.
2. Now fold the left corner, then the right corner.
3. It will look like example 3
4. There are two points at the top. Fold 'a' forward and 'b' back.
5. Your drinking cup is completed.
6. Open the cup and it is ready for use.

Game to play:

Items needed:

- 2 drinking cups
- 2 thumbtacks
- 5 buttons or small stones

Tack the cups on a bulletin board or a piece of cork. Push in the bottom of the cups so they will stay open.

Any number of people can play. Each player, during his turn, gets a chance to throw all five buttons into the cups. If a button goes into the left cup, the player scores three points. If a button goes into the right cup, the player gets two free throws. The player with the highest score wins.

Stand back far enough from the cups so that it is not too easy to get every shot into the cups.

Magic Show

Make an envelope by folding a piece of paper as shown. Seal the front and back, but not the opening on top, with tape or pins. Roll another piece of paper into a pipe, tape it together and insert one end in the opening of the envelope.

Now cut up about 50 snips of different colored paper and pour them through the pipe into the envelope. Shake well, hold it toward a bright light and look into the pipe. What interesting shapes and colored patterns you see! this is sometimes called a kaleidoscope.

Giant Bug

This bug can walk, hop, fly - it's all up to you!

Materials:

- 2 sheets of construction paper different color
- scissors, ruler, pencil and glue

Cut 4 strips, each 1/2" x 12", from one sheet of paper.

Cut a 3" X 3" square from the other sheet of paper. Make a roll with the square and glue the ends together. This is the body of the bug. Glue on scraps of paper for a face and antennae.

Shape the legs of the bug by folding each strip as shown. Firmly crease each fold.

Glue each set of legs to the underside of the roll. Let dry.

Slip your finger into the roll and take your bug for a walk.

Parachute

Materials:

One section of paper towel

Heavy thread

Spool

Scissors, ruler

Button with loop on back or a washer

Cut 4 pieces of thread each 12" long

Tie one piece of thread to each corner of the paper towel.

Knot together the ends of the four pieces of thread. Slip the thread through the spool.

Tie the knotted thread to the button or washer.

Toss the parachute high into the air and watch it float to the ground.

Paper Plate Frisbee

You'll never be without a Frisbee as long as you have paper plates!

Materials: 2 paper plates and glue

Squeeze a heavy line of glue along the bottom (back) of one plate. Firmly press the bottom of the second plate onto the glue. Let dry for an hour.

Working With Tin And Metal

Cub Scout metal projects can be divided into three categories:

1. Those with cans and aluminum plates.
2. Those with lids and sheet metal.
3. Those with wire.

Projects with cans generally require such tools as can openers, "church keys", pliers, punch and maybe a hammer. These projects include bird feeders, planters and hobo stoves. Advanced projects would include cutting the can with snips to make candle holders, drinking cups and biscuit or donut cutters.

Projects with frozen orange juice lids or "Kerr" lids usually require only a hammer and punch or nail. Here a design is made by denting the metal. These projects include Christmas tree ornaments, tie slides, necklace or mobile pendants.

Projects with wire or coat hangers usually require pliers, a bending board and a pair of hands. These projects include wiener forks, hanging planters, mobiles and sculpture.

It would be a good idea to have any cutting with snips done and any sharp places removed with a file before the boys arrive. Most boys are not strong enough to cut metals thicker than a postcard. They will probably cut themselves on the sharp edges while they struggle. Even metal from TV dinner plates and pop cans is very sharp and would be better cut by an adult.

You need to plan and prepare for a good project. Your objective is for each boy to be successful, that is, to have all the projects look alike. Otherwise you are sure to have one tugging at your shirt crying, "mine isn't any good. It doesn't look like Bobby's!"

You will probably have to do part of the work before the meetings. This is done to insure the boys can finish during the meeting and to avoid tasks too difficult for the boys.

You will need enough tools for each boy or risk one becoming a trouble maker. If you are short on the number of tools, have something else for the others to do or have some use the pliers while others use the hammers. They may still fuss over who does what first, but you tried.

No matter what craft you are doing, always have an example of the finished project.

Most of the boys you will work with are not able to visualize what you want without holding one in their hands.