

DRAGON PATTERNS

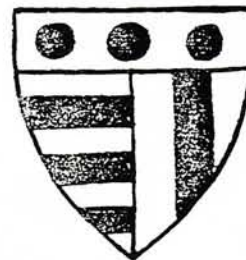
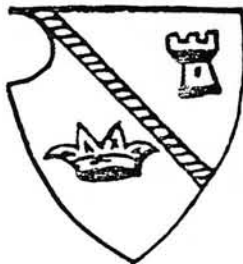
These patterns can be used as shields or pennants. Paint as desired, spray with clear acrylic spray to keep colors from rubbing off.



Print this on paper grocery bag, oil for parchment effect. Use your crest or one shown below. Burn edges of bag.

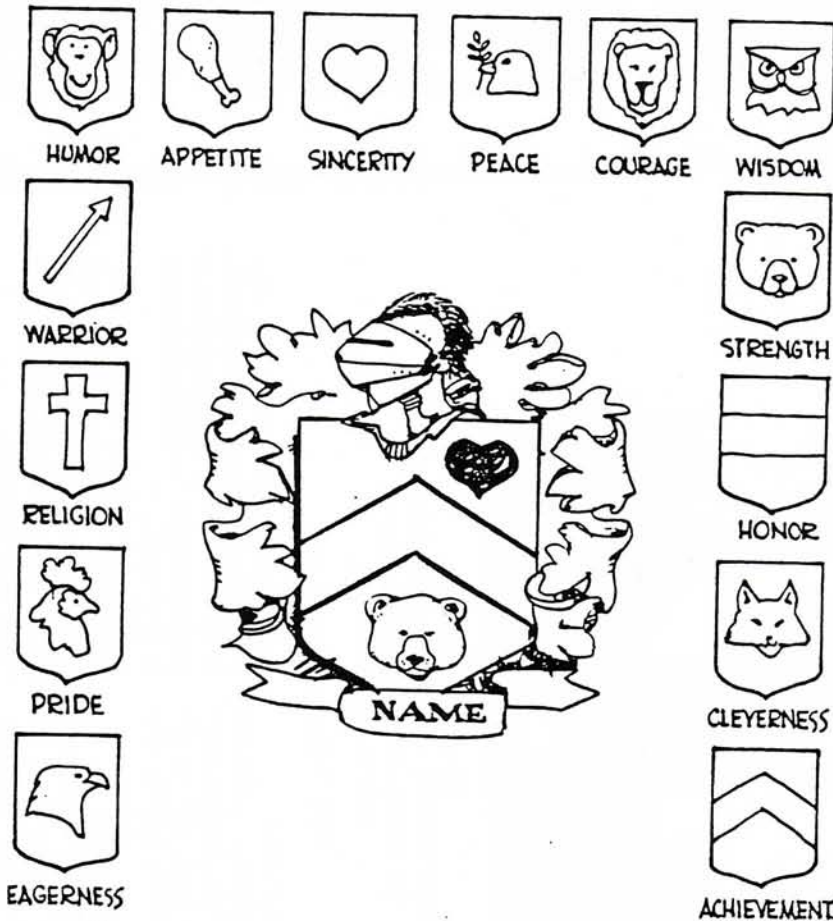
## The Knight's Code

- ✦ Be Always ready with your armor on except when you are taking your rest at night.
- ✦ Defend the poor and help them that cannot defend themselves.
- ✦ Do Nothing to hurt or offend anyone else.
- ✦ Be Prepared to fight in the defence of your country.
- ✦ At Whatever you are working, try to win honor and a name for honesty.
- ✦ Never Break your Promise.
- ✦ Maintain the honor of your country, with your life. Rather die honestly than live shamefully.
- ✦ Chivalry Requireth that youth should be trained to perform the most laborious and humble office with cheerfulness and grace; and Do Good Unto Others.



- RIDDLES: 1. Where was King Arthur crowned?  
 2. What is history's favorite fruit?  
 3. How do you make a Maltese cross?  
 4. When was the Iron Age?  
 5. Why are the Middle Ages called the Dark Ages?  
 6. Why is an author more free than a king?  
 7. Why did the armor worn by King Arthur cost 25¢ an ounce?  
 8. Why is a tournament like sleep?

- ANSWERS: 1. daeh sih no  
 2. setad  
 3. .lat sti liuf  
 4. .sehtole sserpamref erofeb  
 5. .meht ni (sthgim) sthgimk ynam os erew ereht esuaced  
 6. .stcejbus sih esoohc nac rohtua na  
 7. .liam ssalc tsrif saw ti esuaced  
 8. .it, a s'ti (ylthgin) ylthgin a s'ti



HERALDIC SYMBOLS WITH MEANING. (For Knights of the Roundtable theme.) From Pow Wow '82 Book, Crossroads of America Council, Indianapolis, Ind.



# Scouting Balances a Boy



*The secret of the toy is in the balancing weights at the ends of the pole. The weights, below the center of gravity, keep the figure in balance.*

Terry DeMarco, Lockport, NY

## Materials Needed

2 thread spools (foam or wood) 12" of 14 or 16 gauge wire (bottom from coat hanger works fine), 1 1/2" of 1/4" dowel, paint and brushes, 1 section of a foam egg carton.

## General Directions

Insert dowel into hole in thread spool leaving about 5/8" below spool. It should be a tight fit. Drill a hole, same diameter as wire, through spool just above where dowel ends. Paint bottom half of spool blue for uniform and the top part pink in front for face. Paint the remainder of the hair color. Insert wire through spool so ends are even. Again, it should be a tight fit. Bending the wire in the center will help wedge it into the hole if needed.

For the weights, cut second spool in

half. Paint one half blue and the other gold. Bend up ends of wire and push into spool halves. Cut hat from bottom of egg cup and glue on. Add facial features to finish head.

Make the pedestal by nailing a 6" length of 1" dowel to a 4" square of wood. Or, glue 3-4 thread spools together onto wooden base and cut a cardboard disc to cover top spool.

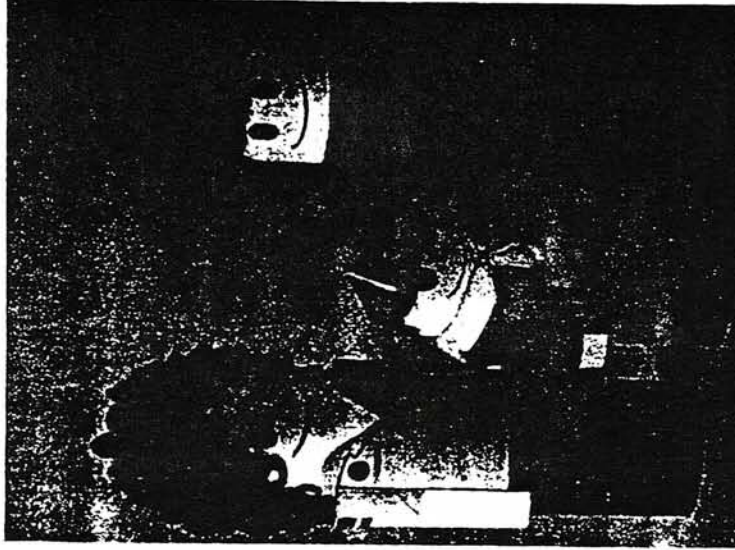
By adjusting wire, Cubby will balance leaning forward, backward or standing tall on pedestal, chair, finger, almost anywhere he can get a footing - even noses!

You might add the words "Physical and Spiritual" on one weight and "Emotional and Moral" on the other, with a small card added to the base saying "Scouting still balances a boy!"

# CARDBOARD ROLL SCOUTS

Make an honorary threesome depicting unity, friendship and good 'ol Scouting ingenuity!

Joy Vrolyk  
Nederland, TX



## Materials Needed

3" diameter cardboard rolls from wrapping paper (1 1/2" long for Den Mother and Cubmaster; 7 1/2" long for Cub). Paper towel cardboard rolls (for arms). Paint and brushes, gold crepe paper, yarn, construction paper, 3" plastic foam ball, straight pins, glue and scissors.

## General Directions

The large cardboard rolls will become the heads and bodies. With pencil, sketch uniform. Paint background first. Let dry; then paint on the details.

For the arms, cut smaller rolls in half. Then, cut lengths to measure 4 1/2" long for leaders and 3" long for Cub. Glue

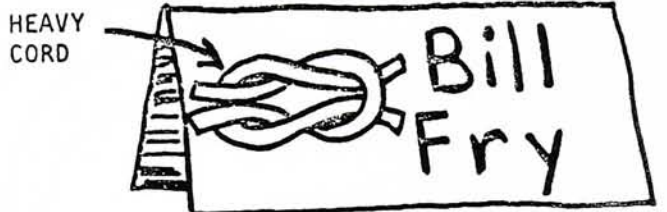
arms to sides and paint.

For the Den Mother's hair, insert half a plastic foam ball in top of roll. Wind yarn around three fingers. Slide off and tie in center. Make as many curls as needed. Pin curls to foam ball; then glue remaining curls down sides and back of head.

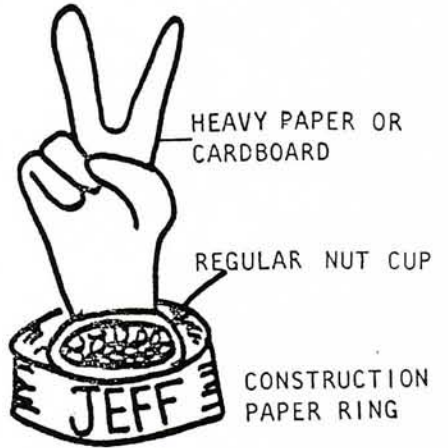
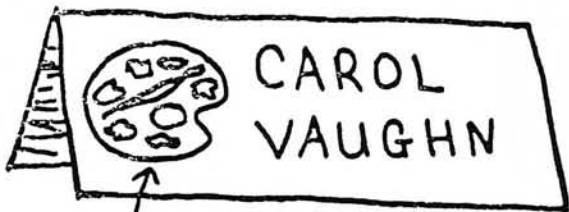
For the Scout hat, cut a 4" paper circle with brim. Slit back end to center. Slightly overlap cut edges, and glue together. Make one for leader and one for cub; paint on details. Glue over top opening of rolls.

Cut a neckerchief from crepe paper, and wrap around Cub's neck. Use a bread tie for the neckerchief slide.

PLACE CARDS  
(Actual size patterns)



4" X 5" CARDS  
FOLDED





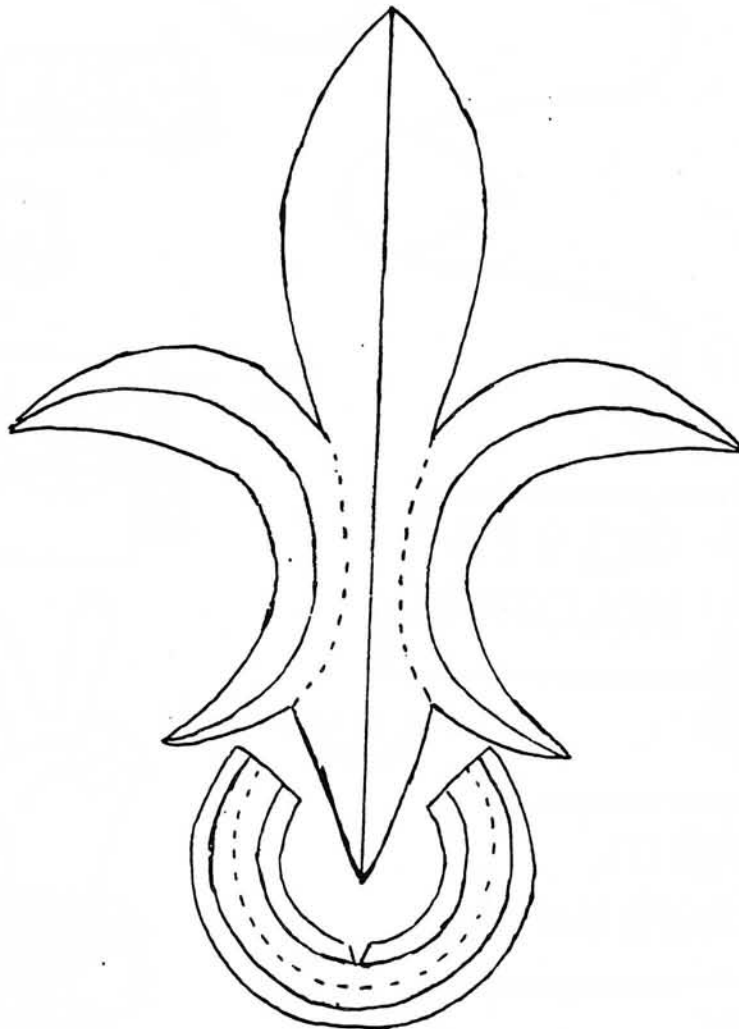
## FLEUR-DE-LIS IN RELIEF

This classic design should be drawn on a sheet of light weight card stock or heavy paper indicating where the scoring is to be on the top side (the fine lines). Score these with a knife. Cut out the design and on the reverse side indicate the scoring by the dotted lines. Score these.

Mould into shape, getting a good crease and nice curves at the sides.

The center band is made from a circle of paper with concentric circles drawn on to it. These circles should be scored, the ones indicated by the line on one side of the paper and by the dotted line on the reverse side. Cut a piece out of the circle and mould into shape. Try the center band around the decoration and where it fits over the center crease, cut a v-piece in order to fit neatly into place. Fasten the center band behind the decoration with tape.

Mount the completed fleur-de-lis upon a blue background. Use for wall decoration or centerpiece.

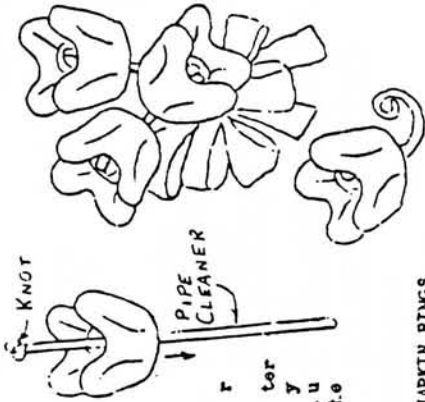


... "BLUE AND GOLD"

**EGG CUP CORSAGES**

For an appealing Blue and Gold barquet table, make corsages for Mother and Sister and a boutonniere for Father and little Brother.

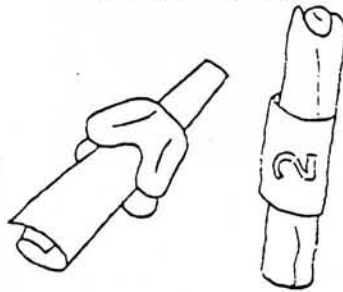
Use colored egg cartons, if available ... otherwise use regular pulp cartons and paint with acrylic paint. Each flower is an egg cup with the sides cut into rounded petals. Knot the end of a gold pipe cleaner and insert the other end through the center of the flower. This gives you a flower on a stem. Combine several flowers by twisting stems together -- add a bow and button to have a corsage. Use a single flower for the boutonniere.



**NAPKIN RINGS**

Cut out the center of an egg cup flower (see above) and insert a paper napkin through the resulting ring. Yellow flower rings with blue napkins are attractive.

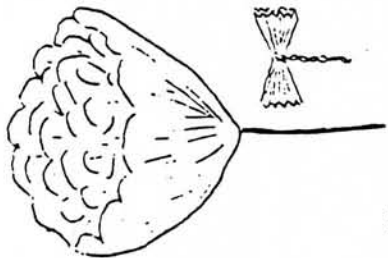
Another easy napkin ring is cut from a cardboard tube and either painted or covered with construction paper. Decorations can be added such as Dan numbers, badges, stars, Cub Scout silhouettes, etc.



**TISSUE FLOWERS OR CORSAGES**

Materials: Facial tissues, stem wire, floral tape.

The size of the flower is determined by the size of the tissues; try cutting Kleenex tissues in quarters. If larger flowers are desired, cut them in half. Stack about 6 layers of tissue and fold the stack accordion style. Hold the folded tissue in one hand; cut petal shape on both ends. Attach a stem wire at the center. Fan out the petals to form a circle. Gently lift up each petal of the top layer to form the center of the flower. Repeat this for the second layer of petals and continue with each layer, one by one until the flower shape is complete. Wrap stems with floral tape.

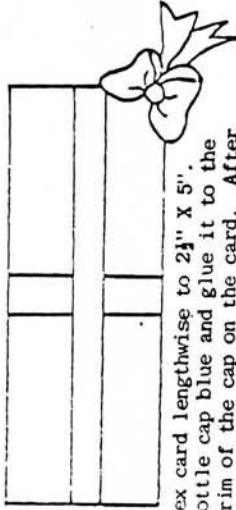


Put together several flowers to form a corsage, adding ribbon, netting and artificial leaves, as desired.

**PARTY FAVORS AND DECORATIONS**

For the "Birthday" theme you might decorate your table like a big "present" and use a birthday cake as a centerpiece.

To "wrap" your table, use a blue tablecloth of paper or oilcloth. Run a 3" wide gold ribbon down the middle from end to end and also across the middle from side to side. Fasten the ribbon underneath the table at each end with masking tape



**CUB SCOUT CAP**

Fold a 3" X 5" index card lengthwise to 2 1/2" X 5". Paint a screw-on bottle cap blue and glue it to the card. Paint the brim of the cap on the card. After the paint dries, paint on gold trim or glue on gold braid. Print guest's name on the card. For a name tag, cut the card to a smaller size and pin to clothes. If you are making corsages for the mothers this would be nice to make for the fathers.



**CUB SCOUT CAP PLACE MARKER**

Take a 2 to 2 1/2" hollow rubber ball. Cut it in half. Rub the inside with a small amount of oil. Fill each half ball with plaster of paris. Let it dry and then unmoild. Cut a piece of cardboard to fit the flat side of the mold and glue together. Remember to seal plaster before painting. Paint hat and visor blue, strips yellow. Glue on emblem to front of hat. Glue a button on top to finish. This can also be made using styrofoam balls cut in half. The larger balls could be used for centerpiece



**SCOUT SIGN**

Trace your right hand on a piece of paper, and cut out the paper hand. Bend down the little finger and the thumb, gluing the tips together. Fold and glue a strip of paper, 1 1/2" X 6", into a ring. Glue the wrist of the hand to the inside back of the ring. Print the guest's or Cub's name on the ring. For a favor, place a nut cup of goodies inside the ring.

**CLOTHESPIN CUB**

Paint a clothespin to resemble a Cub Scout. Cut out two paper arms, and glue them to the sides, facing outward. On a small piece of paper, print the boy's name and glue the paper in the Cub's hands. Glue the Cub to a cardboard circle securely, so that the Cub will stand erect. For a favor, you can tape the Cub to a nut cup, with one leg in and one leg out of the cup.



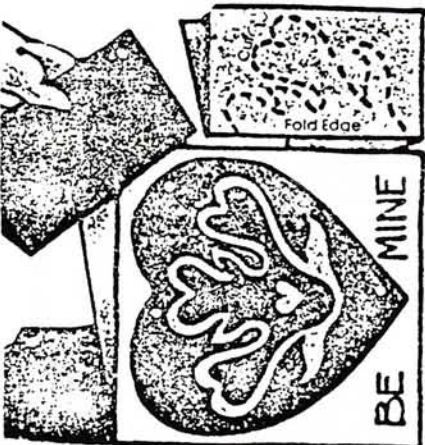
**MYCINANKA**

Pronounced VEE-CHEE-NOM-KAH is a Polish word that means paper cut designs. This form of art can be adapted to greeting cards.

To make some beautiful mycinanka valentines, you will need scissors, red paper, white paper, white tissue paper, pink or other colored paper (optional), glue, and crayons or felt tipped markers.

To make a simple heart, fold a square of red paper in half and draw an outline as shown. Cut along outline, unfold, and you will have a perfectly shaped cutout. Glue heart or heart shaped cutout onto a slightly larger white square to make a pretty silhouetted valentine card. Write your own message with crayon or markers on heart.

Fancier hearts can be made by cutting out a double design as shown and gluing it onto another piece of paper of a different color. Try combining pink with red and white for a pretty color combination.



**FLYING VALENTINE**

Make a paper airplane from white paper. Decorate with small hearts and print "Let's fly, my Valentine" on wings.



**PUZZLE VALENTINE**

**Materials:**  
Red Construction Paper  
Scissors  
Small Envelope  
Pen

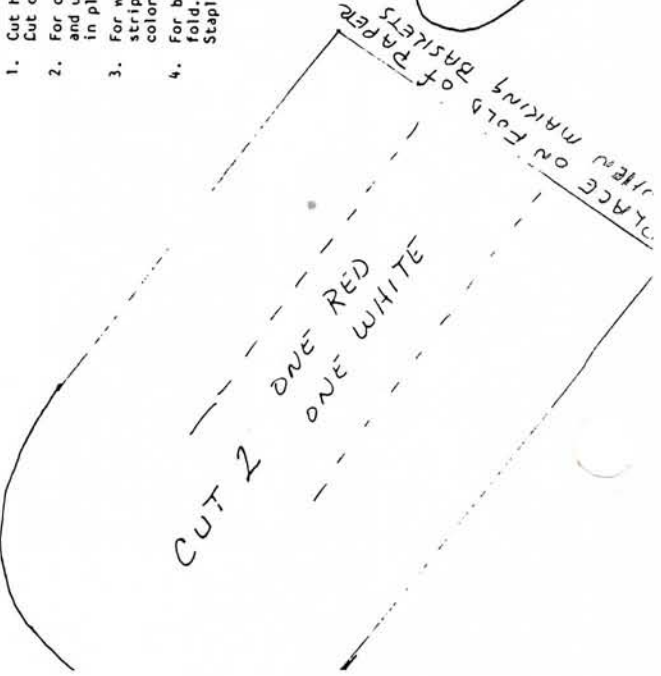
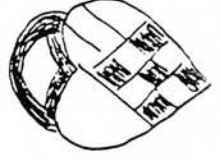
**Directions:**

1. Cut a large heart from construction paper.
  2. Glue front of envelope to middle of heart.
  3. Cut smaller heart, write your name on it, and then cut into puzzle pieces.
  4. Slip 'broken heart' into envelope.
- Seal with small heart and print "Please, won't you be my valentine and mend this broken heart of mine?" on envelope.



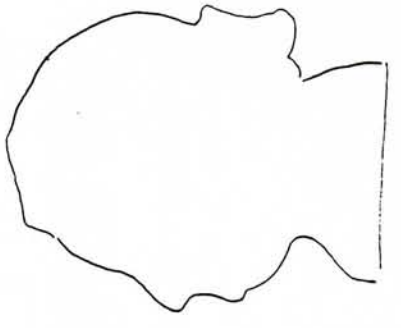
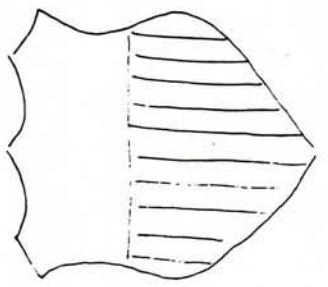
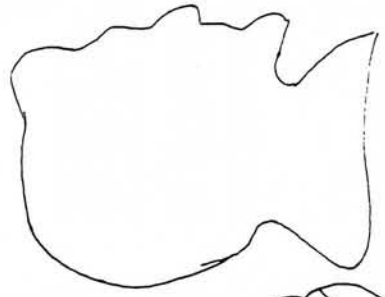
**SWEDISH HEARTS**

1. Cut heart halves from paper or felt. Cut on dotted lines to form strips.
2. For checkered heart weave strips over and under. Adjust edges. Glue or tape in place.
3. For wind streamer heart tape on long strips of paper or felt matching colors of heart.
4. For baskets, cut dotted lines through fold. Weave around and through strips. Staple on handle.



**PATRIOTIC PRINTING**

For patriotic holidays cut designs below from potatoes. To do this trace the desired shape. Then decide whether you want a 'positive' or 'negative' print. Either cut away the potato around or inside your shape about 1/4" deep. Print placemats, napkins, napkin rings made from construction paper strips taped into rings after printing, and placecards. Save them for your Blue and Cold Banquet.

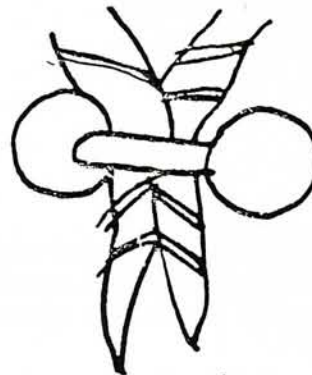




## BARBELL TIE SLIDES

- #1 - Materials: 1/8" dowel stick,  
1 to 2" long  
2 small styrofoam balls  
Paint  
Pipe cleaner  
Glue

Push styrofoam balls onto ends of dowel stick. Glue in place. Twist pipe cleaner around middle of dowel stick leaving a loop big enough for the neckerchief to go through. Glue in place. Paint. Be sure to use paint made for styrofoam.



- # 2 - Materials: 2 20mm wooden beads  
5/16" dowel or dowel to  
fit into beads easily  
Metal 3/4 "D" ring or  
narrow strip of vinyl  
Paint

Measure and cut wood dowel 2 1/4" long with small saw. Paint silver. Paint bead black. Glue one wooden bead on each end of dowel. If ends of dowel are rough, sand smooth. Paint ends of dowel black to match beads. Paint desired weight on front of each barbell with white paint. Thin-line paint pen works well for this. Fasten metal "D" ring or narrow strip of vinyl to back with "hot glue" gun.



## SOCCER BALL NECKERCHIEF SLIDE

- Materials: ping pong ball  
plaster  
pop-top ring  
black paint

Cut a ping pong ball in half. Fill the half of ball with plaster and insert pop-top ring for slide. Let dry. Decorate with black paint to resemble a soccer ball.

Note: This same idea can be used to make a basketball, baseball, etc.



WAMPAUM POUCH

**MATERIALS:**

1. Felt or scraps of heavy weight fabric
2. Embroidery thread and needle
3. Elmers glue or fabric glue
4. Button

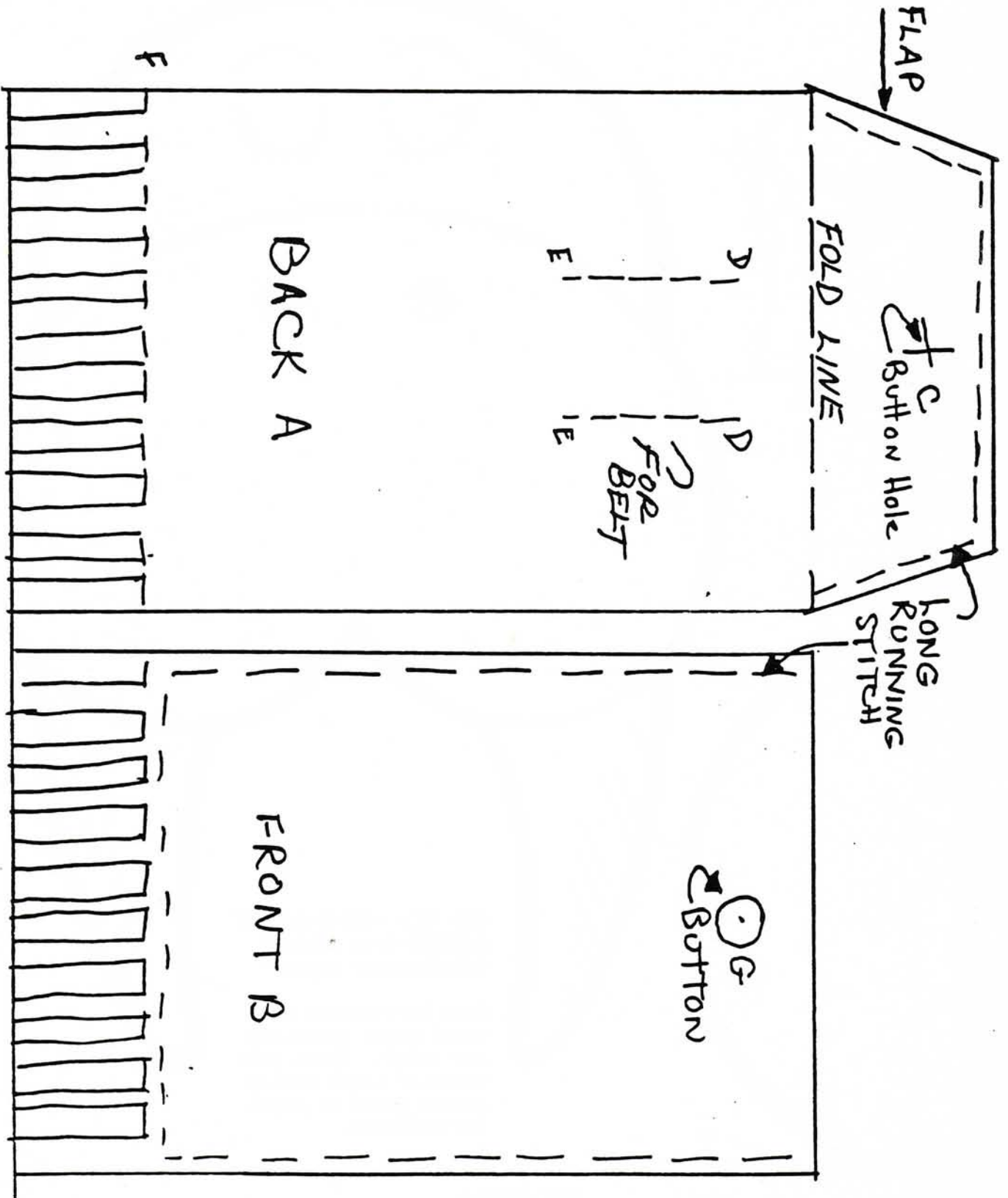
**INSTRUCTIONS:**

1. Cut one by pattern A and one by pattern B
2. Fringe A and B up to dotted line F.
3. Slash to make lines at C and DE
4. Place B on top of A so sides are in line and top of B is even with fold line of A. Pin in a few places to prevent slipping.
5. With two strands of embroidery thread tied in a double knot (which makes four strands) sew A and B using a long running stitch.
6. Using same stitch, go around flap on A.
7. Sew button on at G.
8. Cut Thunderbird out of felt and glue on B.





# WAMPAUM POUCH



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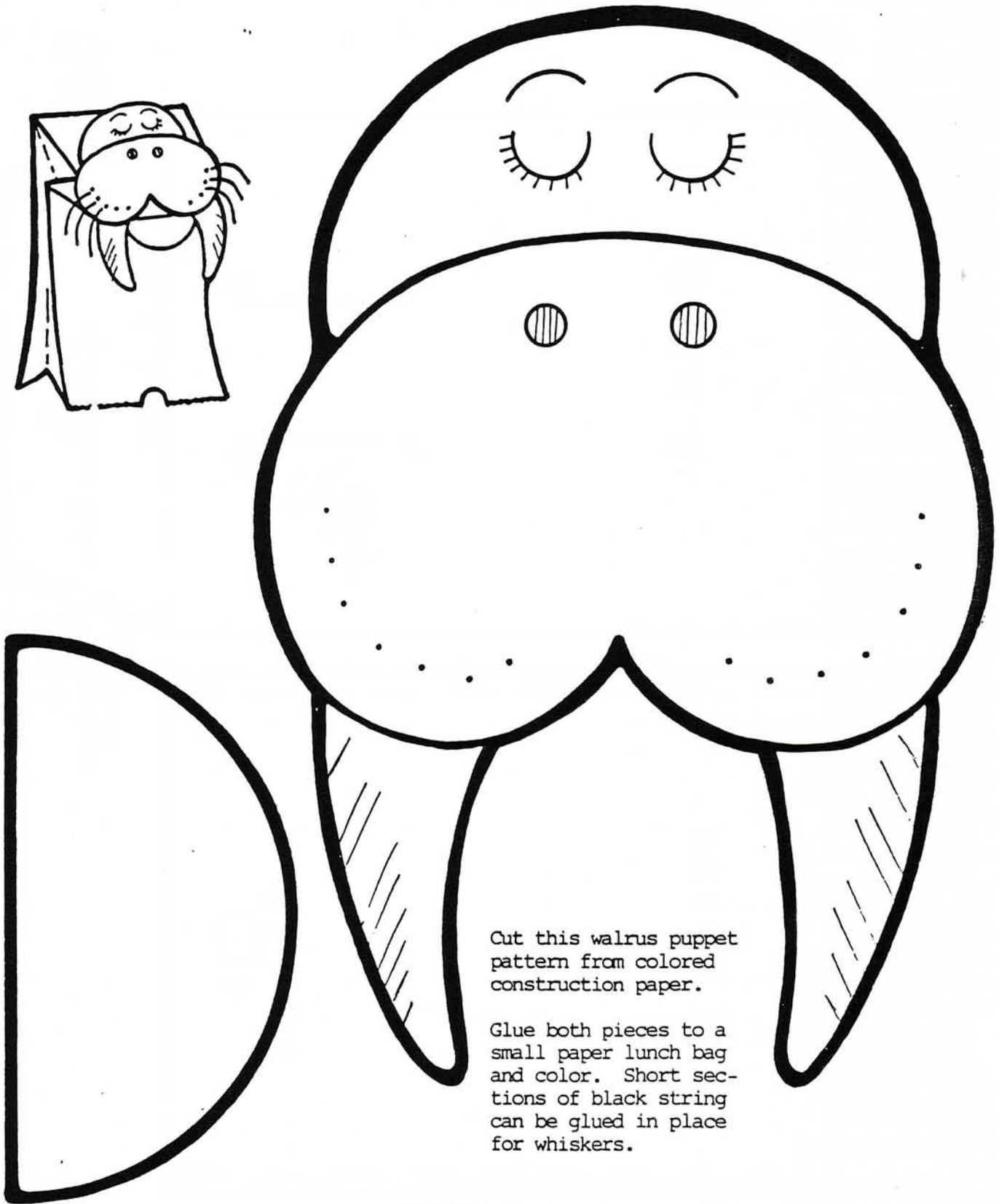
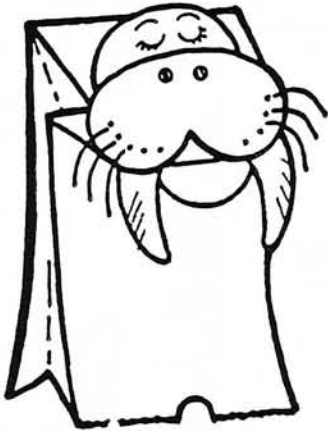
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# Walrus Puppet

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Exploring Alaska  
March 1989



Cut this walrus puppet pattern from colored construction paper.

Glue both pieces to a small paper lunch bag and color. Short sections of black string can be glued in place for whiskers.



ESKIMO MASKS

The Eskimos made masks for entertainment and to bring good luck. Color and cut out this Eskimo mask. Decorate the mask around the outside with paper feathers.



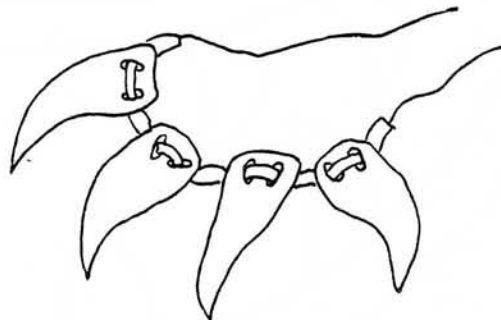
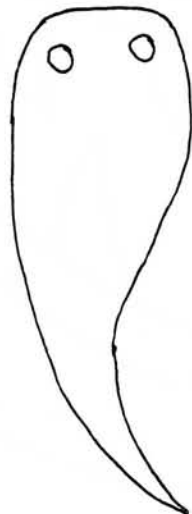
## SCRIMSHAW MEDALLIONS

The Eskimo people used ivory from whales and walruses to carve into useful and decorative items. Mix about 1 cup of plaster of paris to every  $\frac{2}{3}$  cup of water. Quickly drop spoonfuls of plaster onto sheets of wax paper. Use a nail to make a hole before it dries. After drying overnight let the boys scratch designs in the plaster using a nail. After the design is complete, rub colored chalk over the design and blow away the dust. A coating of clear plastic spray may be applied if desired. Thread a thong of leather or yarn through the hole.



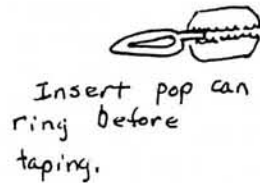
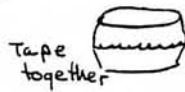
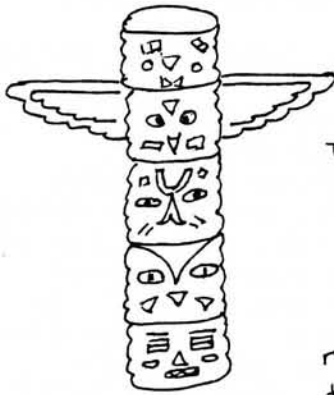
## GRIZZLY BEAR CLAW NECKLACE

The Indians of Alaska regarded the grizzly bear as the most powerful creature on earth. To be able to wear a necklace of grizzly claws was proof of great courage and skill. Using the pattern, make claws from thin plastic, like 2 liter coke bottles. Have the boys write on the claws actions or events in which they have done their best. On a length of yarn, space the claws with 1" lengths of drinking straws to make necklace.





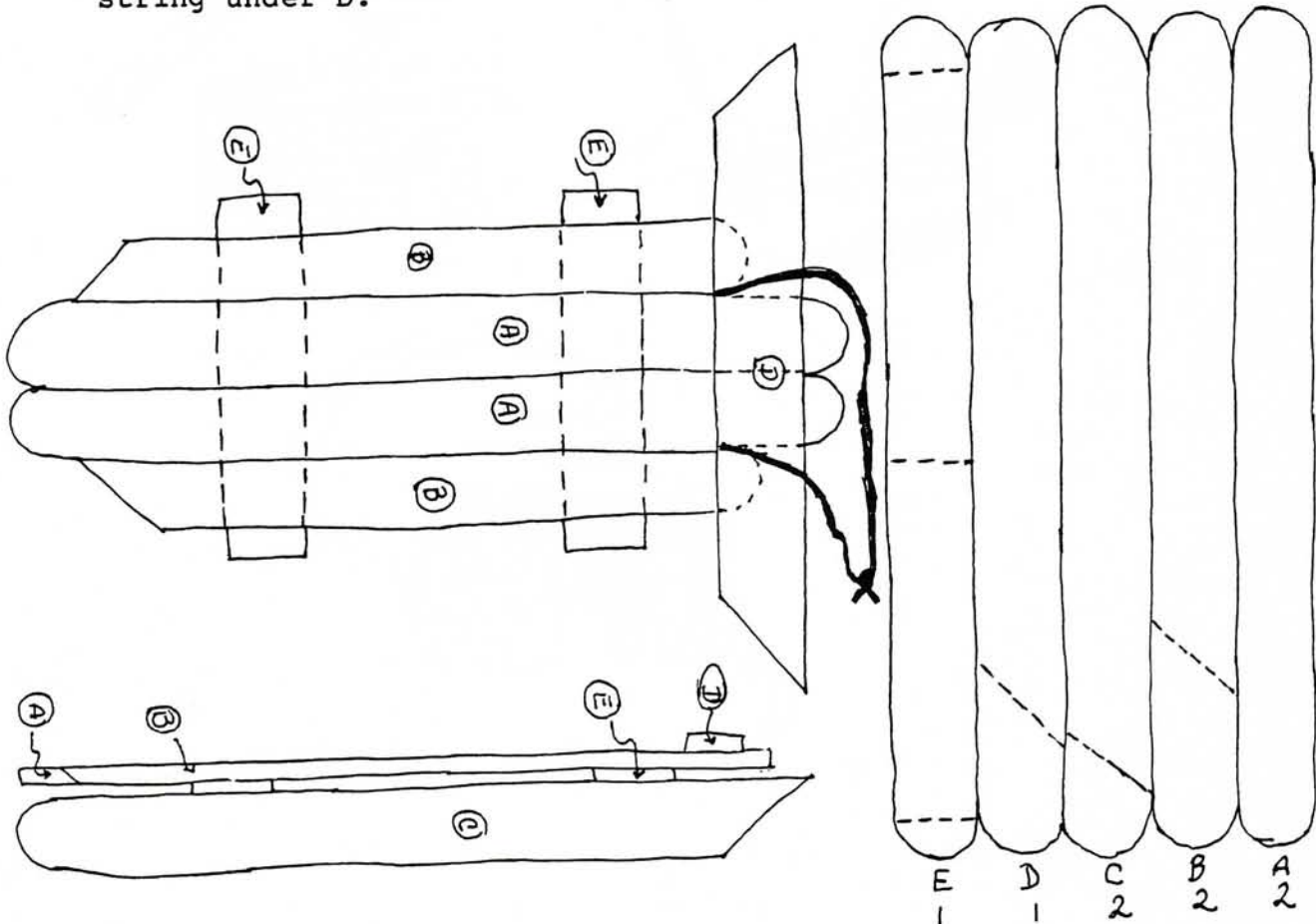
TOTEM POLE SLIDE



For each section of totem, use 2 bottle caps taped together, rim to rim. Use pop can ring or circle of pipe cleaner for slide ring. Insert between 2 bottle caps before taping together and secure with a little glue to the inside of the bottle cap. Glue the sections of totem together using as many sections as desired. Wings or beaks of construction paper may be added and glued on. Decorate the sections of the totem pole as desired using Indian designs.

SNOW SLED

Use 8 popsicle sticks for each sled and 1 8" piece of string. Cut sticks B, C, D, E as shown. Glue E to bottom of A-A and B-B. Glue D to top of A-A. Glue C to bottom of E-E. Tie string under D.

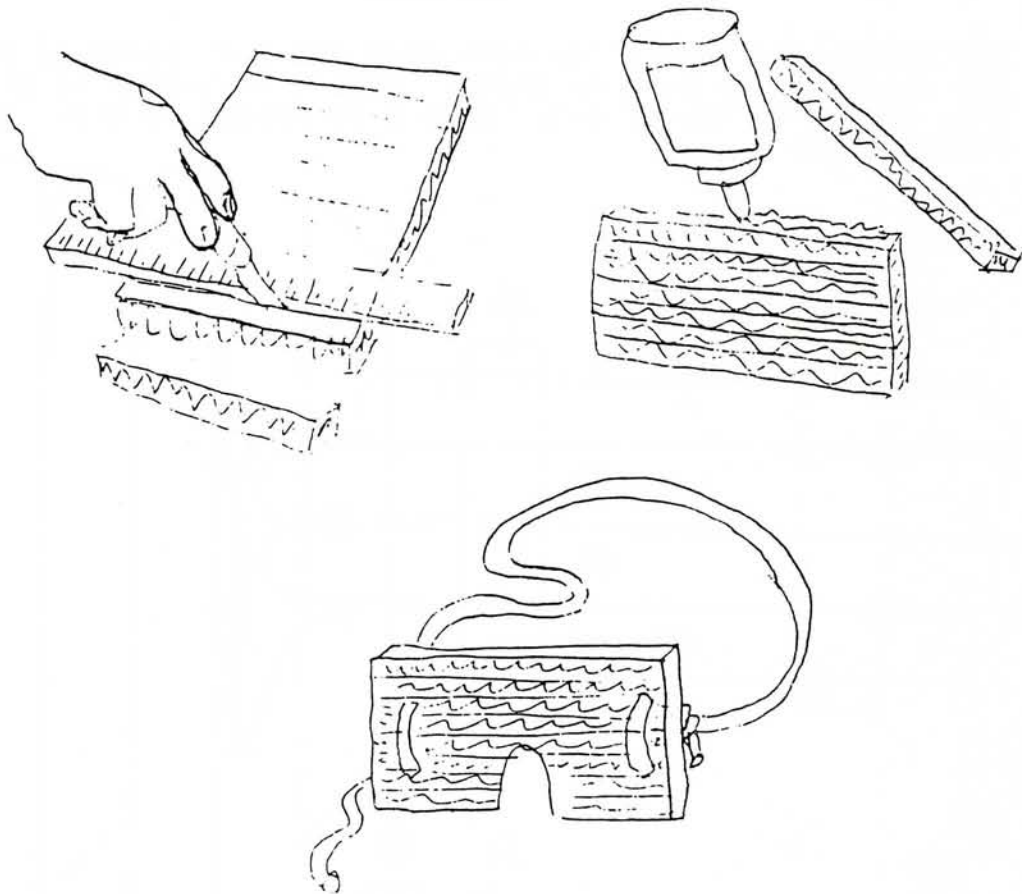


SUNGOOGLES

For hundreds of years the Eskimos have used sunglassed that have no lenses-- only two narrow slits that keep out most of the bright sunlight. You can make a pair of sungoggles what work in a similar way, but instead of looking through a slit, you look through a small hole.

Materials: Corrugated box, string, glue, ruler, pencil and knife.

Use a corrugated box and cut off a large flat undamaged piece. With a pencil and ruler, mark off about 10 or 12 strips  $\frac{1}{2}$ " wide and 6" long. The corrugations must go across the length of the strips. Cut out the strips with a knife, using the ruler as a straight edge. Glue all the strips together, one on top of the other. When the glue has dried, cut out a piece for your nose. Now tie one end of a piece of string to one side of the goggles by threading it through the corrugations. Loop the free end of string through thr other side, but do not tie it in a hard knot. If loose, it can be adjusted. **DON'T WEAR THEM WHILE RIDING YOUR BIKE OR WHILE RUNNING BECAUSE YOU CAN ONLY SEE STRAIGHT AHEAD.**



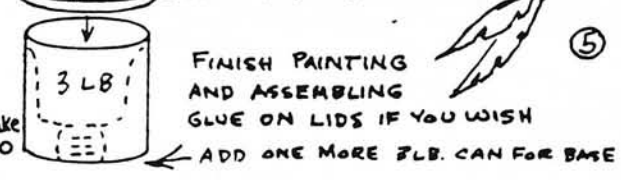
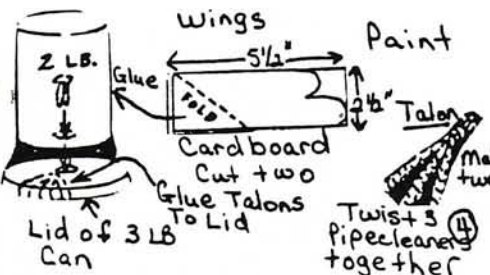
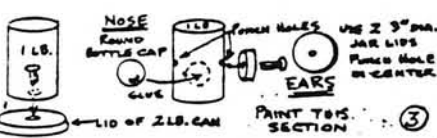
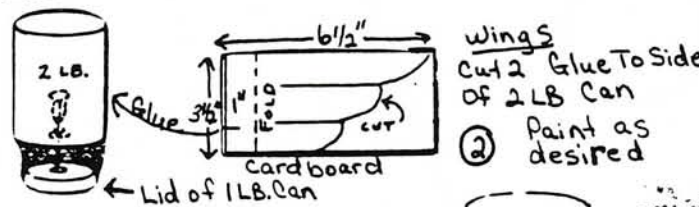
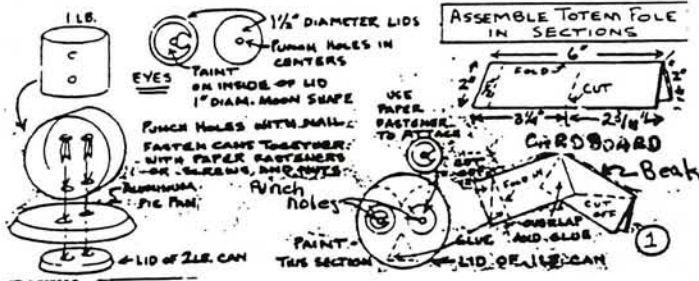
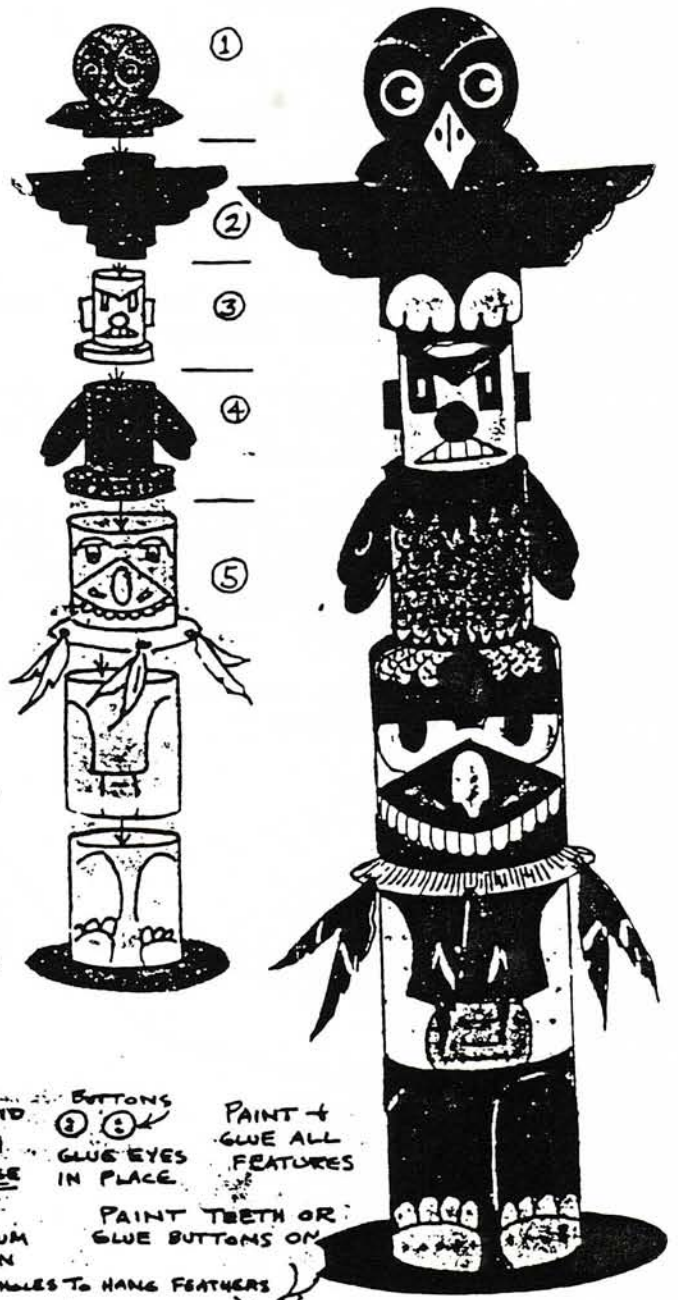


**TOTEM**

A large totem pole, such as the one shown on this page, could be a wonderful project for a group of Cub Scouts to work on together. Ideal as a stage prop for an Indian skit, the Totem can also be used as an extra large decoration for a banquet table.

**Materials needed:**

- 1 1/2" diameter tin lids
- Two 1 lb. cans
- Two aluminum pie pans
- Two lids from 1 lb. cans
- Two lids from 2 lb. cans
- Cardboard
- Two 2 lb cans
- Nail and hammer
- Paper fasteners or screws and nuts
- Round bottle cap
- Two 3" diameter jar lids
- Two pipe cleaners
- Three 3 lb. cans
- Oval lid
- Buttons
- Feathers



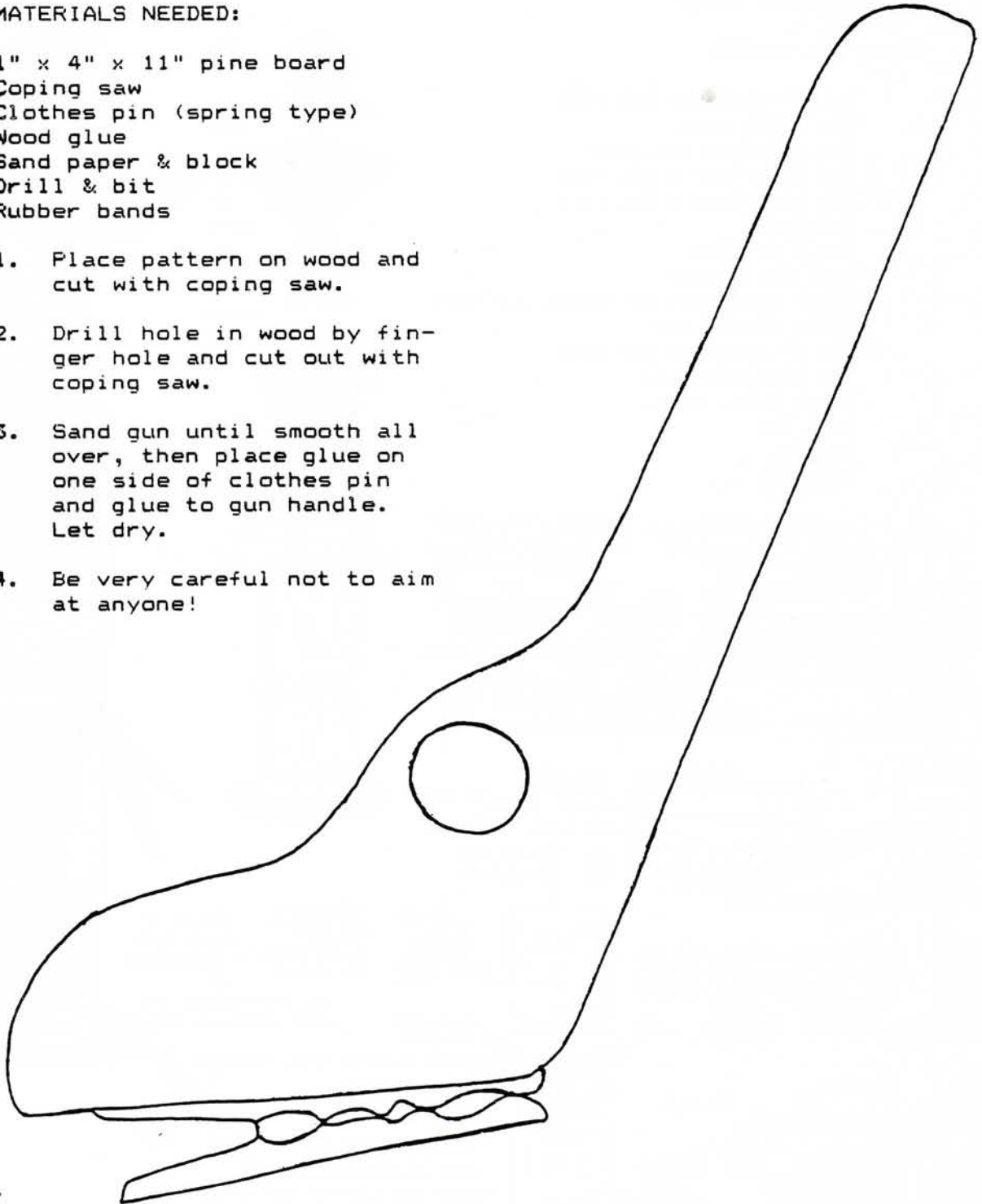


RUBBER BAND GUN

MATERIALS NEEDED:

1" x 4" x 11" pine board  
Coping saw  
Clothes pin (spring type)  
Wood glue  
Sand paper & block  
Drill & bit  
Rubber bands

1. Place pattern on wood and cut with coping saw.
2. Drill hole in wood by finger hole and cut out with coping saw.
3. Sand gun until smooth all over, then place glue on one side of clothes pin and glue to gun handle. Let dry.
4. Be very careful not to aim at anyone!





MINIATURE BOX

- 1 wooden yardstick
- Lathe or plywood  $\frac{1}{2}$ " x 10" x  $1\frac{3}{4}$ "
- Decorative hanger
- Glue
- Acrylic paint
- glass (optional) 10" x  $1\frac{3}{4}$ "

This 'mini' box is an attractive gift for mom. You may want to cut the yardstick pieces in advance, to save time, and to be certain they are cut correctly.

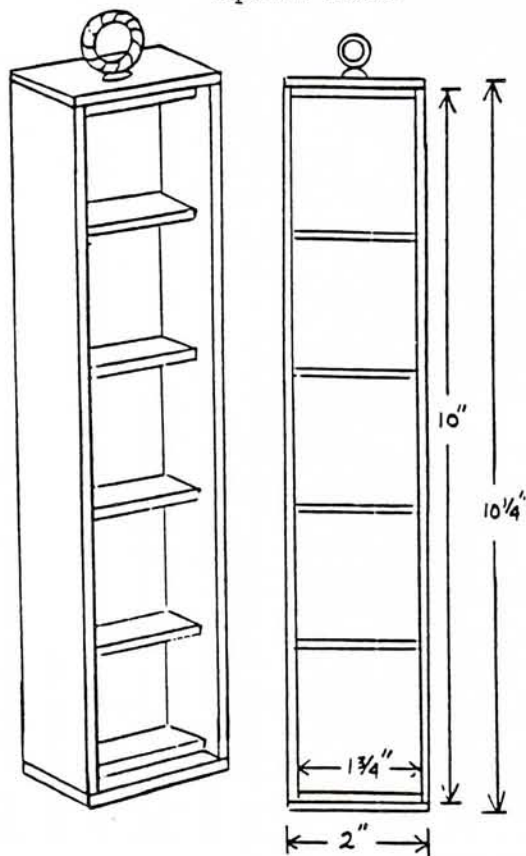
Cut yardstick into two 10" pieces (sides); two 2" pieces (top and bottom); and three  $1\frac{3}{4}$ " pieces for shelves.

Split the  $1\frac{3}{4}$ " pieces lengthwise to get six pieces approximately  $\frac{5}{8}$ " wide and  $1\frac{3}{4}$ " long. Four of these will be used as recessed shelves. The other two are used as supports inside the top and bottom.

Glue sides to outside of lathe or plywood back. Glue on top and bottom pieces. Glue two of the narrow pieces to top and bottom on inside box. Glue in the four shelves. Let dry and sand.

After glue has dried, paint box desired color. Add the hanger to the top.

If you want to enclose the items behind glass then you must add them to the shelves. Then glue the glass to the top, bottom and sides. It will be recessed in the box.



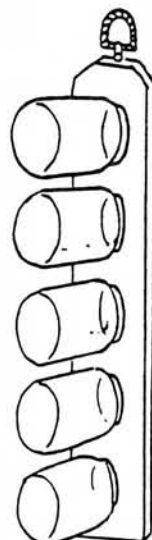
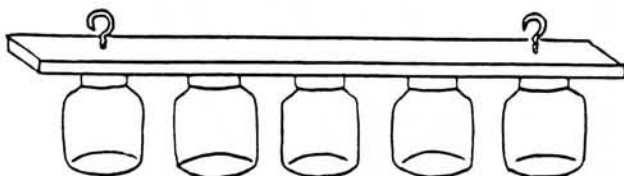
HANDY DANDY JAR HOLDER

Use  $\frac{3}{4}$ " board, approximately 4" x 15". Bevel edges if desired. Sand board. Stain or paint. Be sure baby food jars are clean and dry. Arrange jar caps on wood, with top side of cap against wood. Nail caps to wood. Add decorative ring at top and screw jars into caps.

This can be made to hang either horizontal or vertical.

If desired, the jar caps can be spray painted before attaching them to the wood.

Dad can use this handy holder to hold an assortment of screws, nails or bolts.





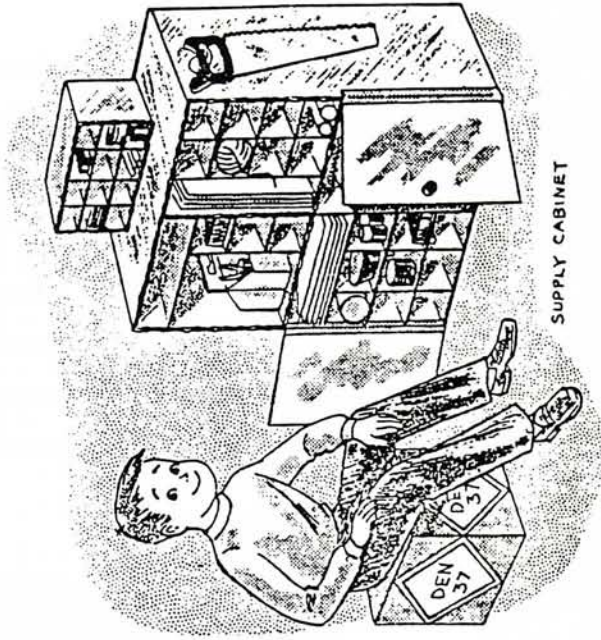
SUPPLY CABINET:

Use four cartons 11" x 15" x 11" deep, stacked as shown. To make doors on the two lower cartons, glue the flaps shut; then cut around three sides of carton, leaving one long side uncut to serve as a door hinge. Reinforce hinge with tape. Place the cartons side by side with hinges at the outer edges.

For the top open-front cartons, cut off all flaps. To give variety in the size and shape of the openings, remove some of the dividers. Reinforce remaining shelves and partitions with cardboard strip cut from the flaps. Glue cartons together.

If you wish, you can glue an additional small carton on top. To finish cabinet, paint it inside and out, or cover with adhesive-backed paper. Apply braid or tape to cut edges and glue on plastic bottle caps for doorknobs.

Attach a glue-on type plastic hook to the side of the cabinet to use for hanging a saw or other tools.



SAWDUST DOUGH

This dough dries a blond color and has a rough texture which can be sanded smooth and painted or left natural.

**MATERIALS:** Sawdust (find this at lumber yard or cabinet shop)  
Wheat paste  
Water  
Tempera paint

**TOOLS:** Sieve or screen  
Container (like a big coffee can)  
Measuring cup  
Stirrer  
Heavy cardboard or wooden slab  
Sandpaper  
Paintbrush

1. Strain the sawdust through the sieve to remove the big lumps and chunks. The finer the dust, the smoother the clay is.
2. Mix one part wheat paste to three parts sawdust in container.
3. Add enough water to make a claylike dough. Knead the dough to make it smooth.
4. Shape and sculpt the dough. Work on heavy cardboard or wooden slab.
5. Let your sculpture dry. This will take a day or two depending on the weather and the thickness of the piece. Avoid building anything too fat to prevent cracking when it dries.
6. Sand the sawdust dough sculpture or leave it rough for an interesting texture.
7. Paint the sculpture with tempera paints or leave it the blond color of sawdust.



# A Nail and Screw Tray

BY GLENN WAGNER

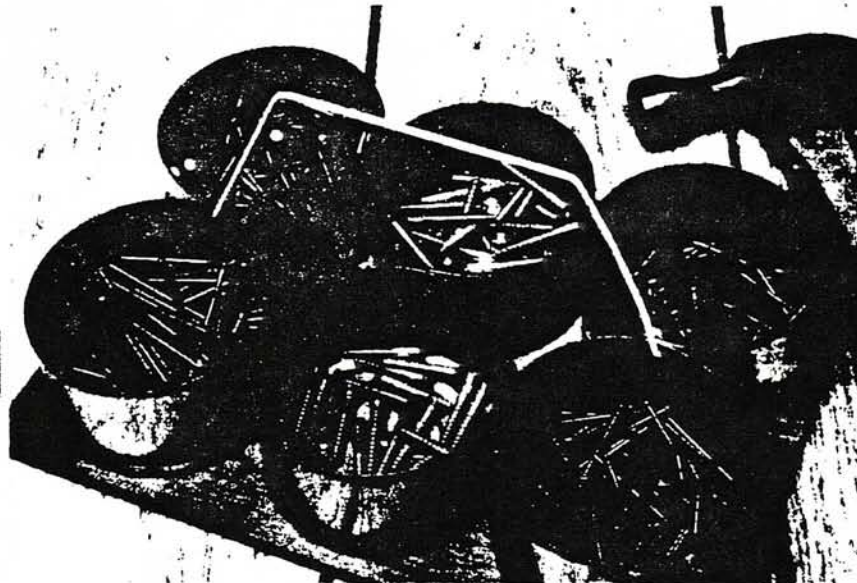
**This handy organizer gives you a ready supply of fasteners for workshop projects.**

**F**or each home-repair job or workshop project, you seem to need a different kind of nail or screw. This nifty

tray will carry an assortment of both fasteners, ready for any job.

You need these materials:

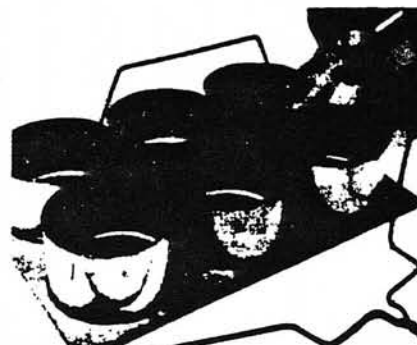
- Six clean, tuna or cat-food cans.
- Six  $\frac{3}{8}$ " No. 6, pan-head, self-threading, sheet-metal screws.
- A  $\frac{1}{4}$ " x  $7\frac{1}{4}$ " x  $10\frac{1}{2}$ " piece of plywood, panelboard, or solid wood for the base.
- An 11" length of heavy, coat-hanger wire for the handle.
- Thick cardboard, cut into 1" squares for shims. ♣



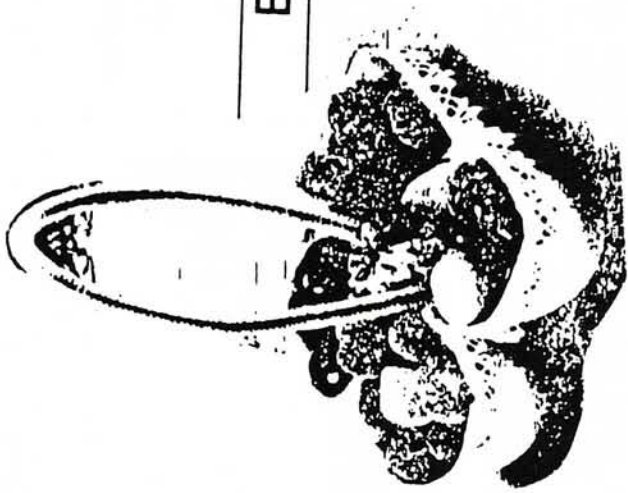
Use a cardboard pattern (right) to locate hole centers in cans. Drill  $\frac{1}{8}$ " holes in cans, then center on base. Drill  $\frac{1}{32}$ " pilot holes for screws (below, left).



Build up the can centers with cardboard shims before fastening. Wire handle (below, right) has 4" center, 3" bent sections, and  $\frac{1}{2}$ " hooks.







## EGG-Y IDEA

CFT-APR-6

### Egg Carton Basket

#### Materials

- 1 egg carton (blue used, for sample)
- 1 matching-color chenille stem
- 1 section of forget-me-nots, assorted colors
- 1/2 yd. 1/2"-wide white lace
- White craft glue

1. Use small sharp scissors and cut a 4-section piece from the egg carton (Fig. 1).
2. Bend the chenille stem. Insert the 2 ends of it into each side of the hump in the middle of the 4 sections (Fig. 2). Twist ends together underneath.
3. Glue a small piece of lace and 5 forget-me-nots to the center hump (Fig. 3).
4. Glue lace all around the outside edges.



Throw-ways that were used to make this project

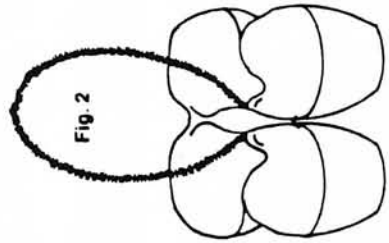


Fig. 2

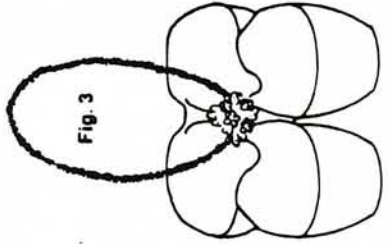
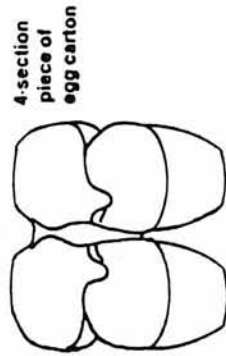


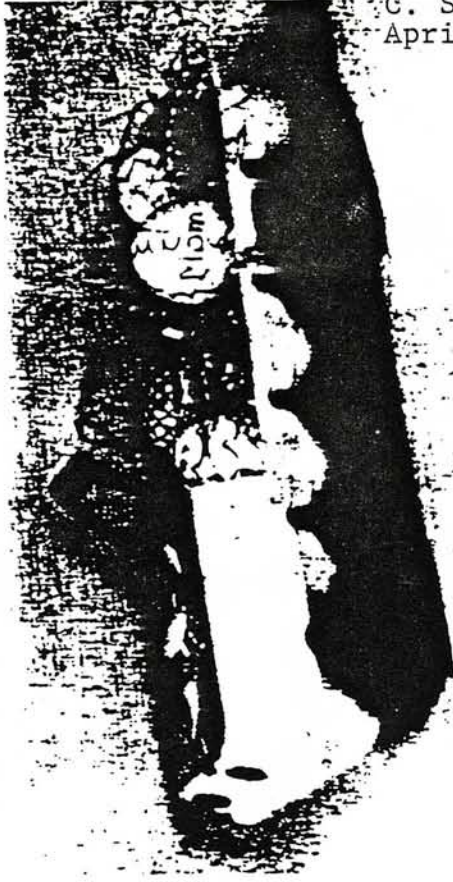
Fig. 3

Fig. 1



4-section piece of egg carton

# EGG CARTON TRUCK



G. S. Handyman  
April 1989

*It's eggs-actly what you're looking for to hold your colored Easter eggs!*

Evelyn Tanner  
Central, AZ

### Materials Needed

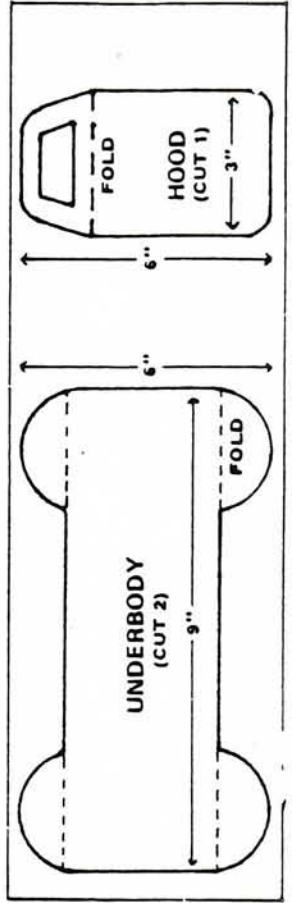
Colored poster board, foam egg carton, decoration (cut from cards or magazines), twelve colored eggs, Easter grass, scissors and glue.

### General Directions

Cut hood, underbody, 3/4" round headlights and 2 1/4" round wheels from poster board. Cut out window and fold windshield forward as shown.

Glue hood to one end of carton lid. When dry, cut away remaining carton lid, leaving about eight egg nests exposed. (Note: Remember to leave the hinged section of the carton hood intact.) Glue a cute decoration to hood, and glue headlights to front of truck.

Glue the two underbodies together, and fold wheel braces forward. Glue underbody to bottom of truck; let dry. Glue wheels to wheel braces.





### Kite Mobile

**General instructions:** For each kite covering, cut three pieces of paper,  $4\frac{1}{2}$  x 9"; two of tissue paper, and one of white paper. Mix equal parts of white glue and water, and brush the glue mixture on the white paper. Place a sheet of the tissue paper over the glue-covered surface, and smooth it with your fingers. Now, turn the glued piece over, lay it on wax paper, and repeat the process with the other sheet of tissue on the other side. Let dry thoroughly.

For the kite frames, you will need wooden sandwich picks,  $1/8$ " x  $3\frac{1}{2}$ ", available where toothpicks are sold. Or you may substitute thin strips of balsa wood the same size. The picks can be cut with kitchen shears.

**Box kite:** To make the box kite, cut four picks to  $2\frac{3}{4}$ ", and eight picks to  $1\frac{3}{4}$ ". Glue the picks together to form a box frame, as shown, using thick craft glue. Let the box frame dry overnight.

From prepared tissue paper, cut strips  $3/4$ " x  $8$ ", and glue them around the top and bottom of the box frame, so that the top strip extends  $1/8$ " above the top edge of the frame, and the bottom strip extends  $1/8$ " below the bottom edge. When the glue is dry, decorate the tissue paper with felt markers or tempera.

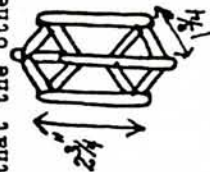
To hang the kite on the mobile, thread a needle with a  $10$ " piece of nylon thread. Carefully poke a hole in the tissue paper, just above the corner of the frame, knotting the thread on the inside. Make three box kites.

**Flat kite:** To make the flat kite, use one full pick and cut one to  $2\frac{1}{2}$ ". Glue them together to form a cross.

Cut the kite shape from the prepared tissue paper, following the pattern and crease on the dotted lines, as shown. Glue the four points of the paper kite to the points of the kite frame.

Tie one end of a  $10$ " piece of nylon thread to the center back of the frame, where the picks are crossed, and leave the other end free for attaching the kite to the mobile. Make two flat kites.

**Tails for kites:** To make a tail for each kite, cut small strips of matching-color tissue paper,  $3/8$ " x  $1$ ", and twist each one at the center. Glue them at evenly-spaced intervals along a  $6$ " piece of colored thread. Glue one end of the tail thread to the bottom of the kite, so that the other end hangs freely.



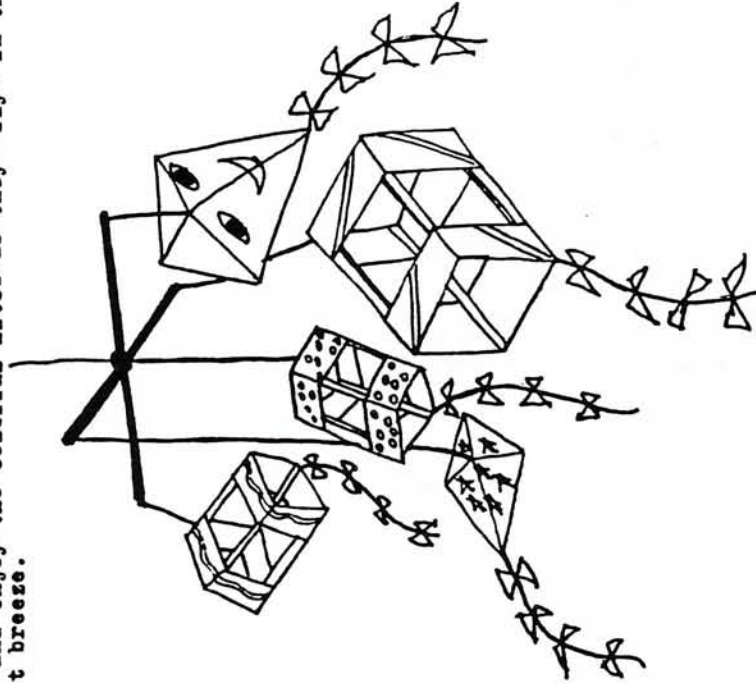
crease on  
dotted lines

**Assembly:** The mobile is assembled with two pieces of 22 gauge wire,  $12$ " long.

Tie the centers of the wires together in a cross-like fashion with an  $18$ " length of nylon thread, wrapping the thread around the crossed wires several times in each direction, and knotting tightly. Leave long ends of the thread dangling: one to extend upward for attaching the mobile to the ceiling, and the other to extend downward to attach the fifth kite.

Tie a kite to each end of the wire, and a kite to the center thread extending downward. When you have positioned the kites so they balance properly, apply a dab of glue to each knot to hold the threads on the kites firmly in place on the wires.

Hang the mobile by the center thread in a doorway or from the ceiling, and enjoy the colorful kites as they "fly" in the slightest breeze.

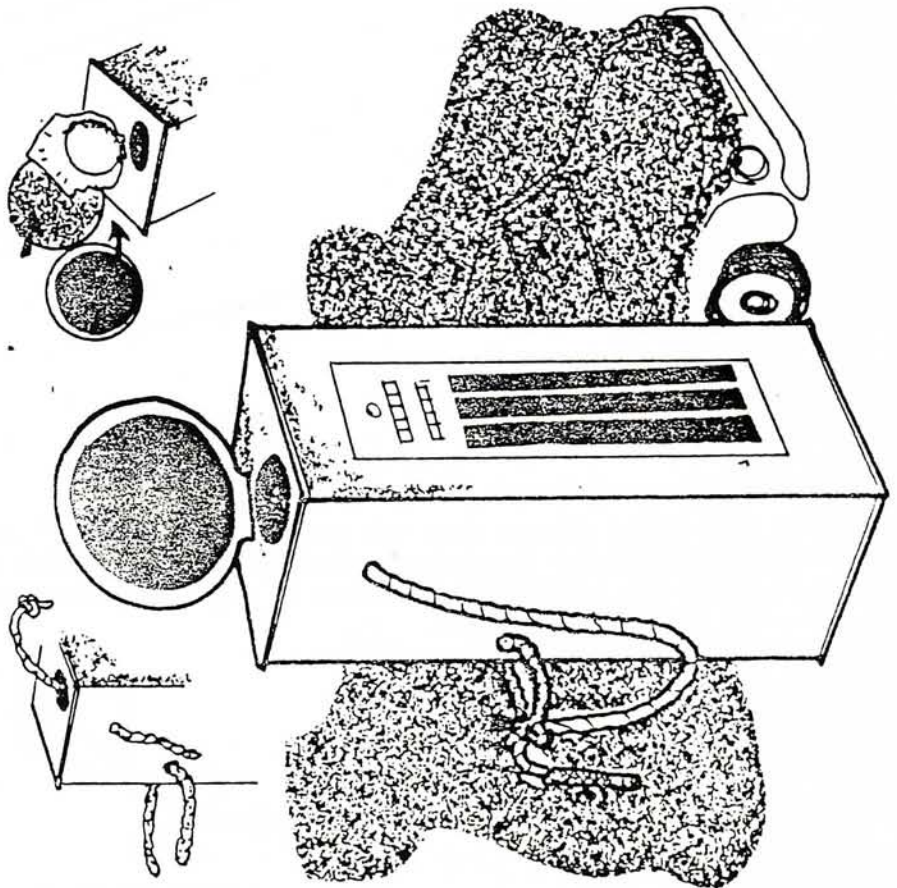




CARDBOARD CARPENTRY

A GAS PUMP: What a neat trophy idea!

Use a flat-topped one-quart milk carton. Cover with bright red paper. Cut a piece of rope or string about 3" long for 'hose'. Knot one end. Make a small hole in side of carton. Put other end of string down through the pouring spout and poke out through the hole. Pull 'hose' through; knot should hold it in place. Crush a small piece of foil around tip for nozzle. On back corner about halfway up, poke holes catty corner and insert end of a pipe cleaner. Twist on outside and make a loop for it to hold your 'hose.' Stand up the pouring spout cover and paste or staple 'Gas' signs on both sides. You can letter these or cut them out of old magazines. Paste a white panel in front of the gas indicators. Now you are in business to supply all of your toy cars and trucks.



Caboose with Secret Drawer

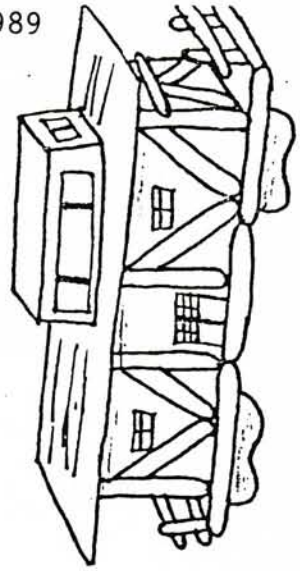
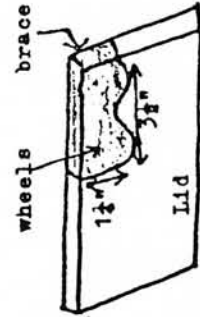
This caboose, made from a child's gym shoe box, is designed so the top opens. The cupola is made from a box that once contained wooden kitchen matches. The dupolia also opens and may be used as a secret drawer.

Start by cutting down the rim of the shoe box lid to about 1/2" all around. Then cover the sides of the box and rim of the lid with bright colored paper. Shiny shelf paper is perfect. For a smooth bond, use rubber cement. Also, cover sides and ends of matchbox. Cover top of matchbox with paper. Set the matchbox aside for now.

For the roof, use sturdy cardboard, 3" longer and 1" wider than the shoebox. For the platform, use cardboard the same length as the roof, but only the width of the shoe box. Paint roof and platform or cover with paper. Glue roof to lid of box and platform underneath.

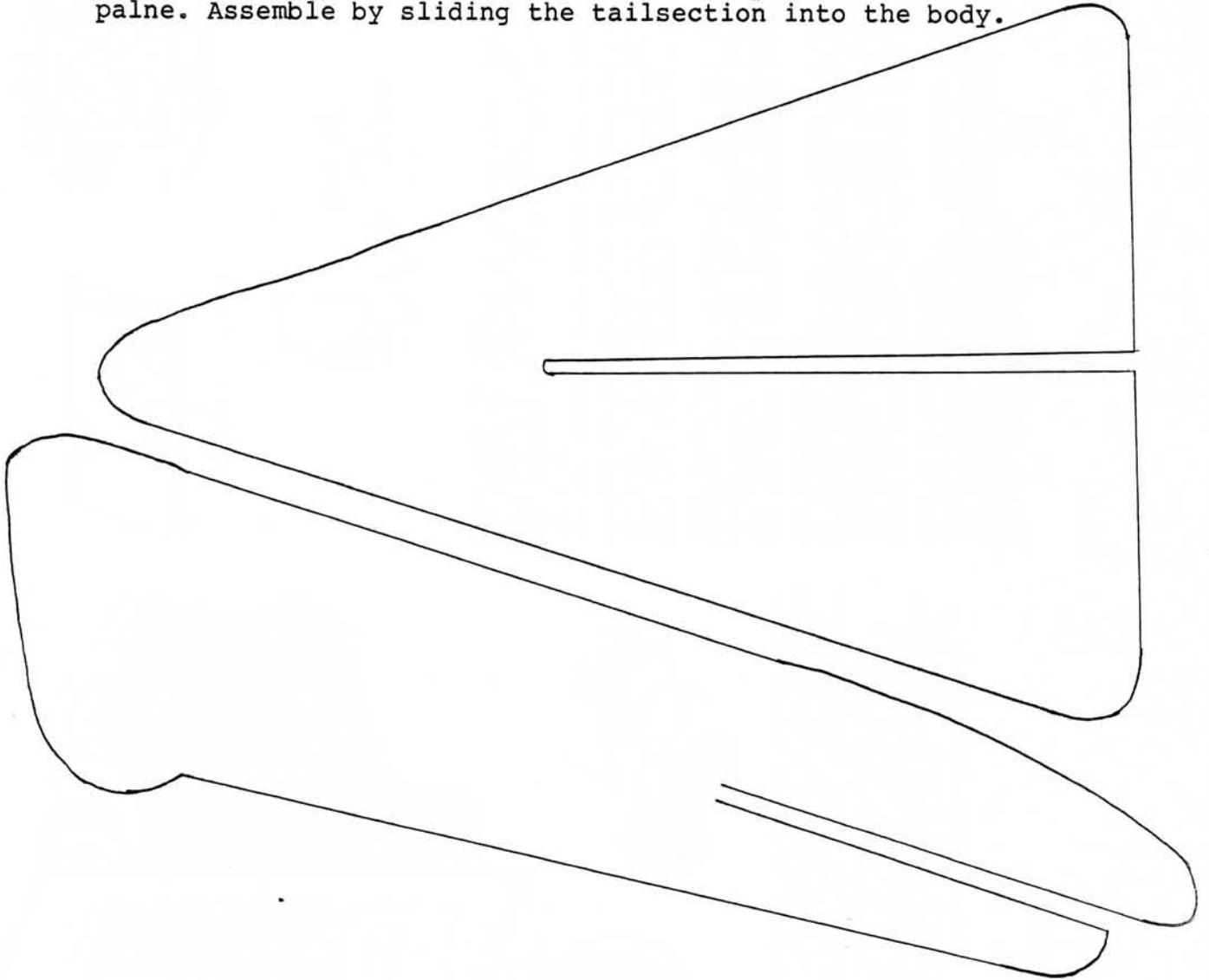
Make four pairs of wheels, each about 1 1/4" x 3 1/2". Cut each pair from the corner of a lid, which has a fairly narrow rim. The sturdier the lid, the better. Use black ink or crayon to blacken the wheels. Then glue the wheels underneath the caboose. For the catwalk, glue narrow strips of paper down the center of the roof.

Draw windows and doors on whiter paper with black crayon or felt tip pen. Glue to the cupola and the caboose. Then, glue the cupola to the top of the caboose. Finally, add popsicle stick trim and rails.



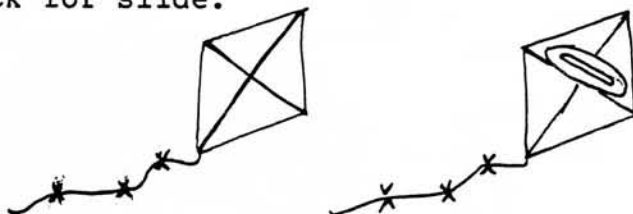
FOAM AIRPLANE

Use foam meat packing trays. Using pattern, cut out parts. Assemble by sliding the tail section into the body.



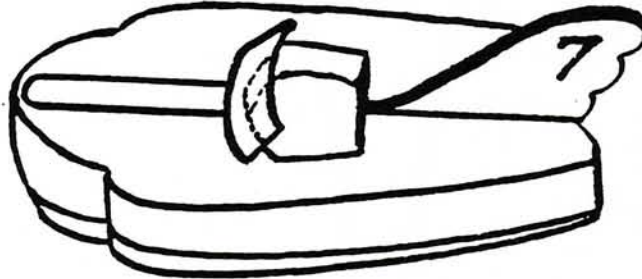
KITE TIE SLIDE

Cut kite shape out of cardboard, 2 1/2" on each side. Decorate as desired. Add yarn tail, and small yarn bows to tail at intervals. Glue a pipe cleaner ring or pop can tab to back for slide.





RACING BOAT



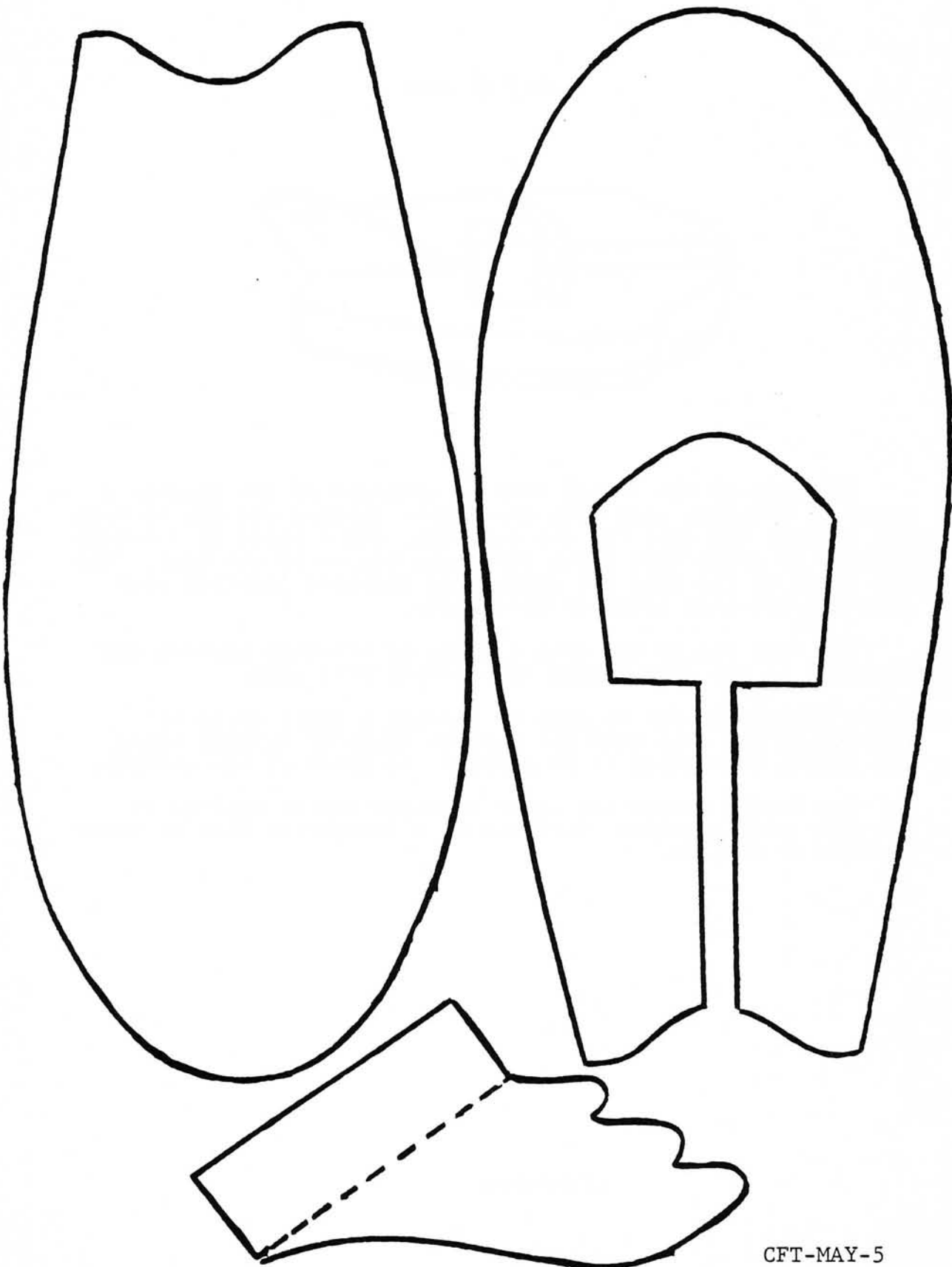
The hull of the racing boat is composed of two pieces. A piece of 3/4-inch pine with the center section cut out to form the cockpit and slot for the tail fin, and a piece of 1/4-inch plywood or crate wood which forms the bottom of the boat. The two parts of the hull are sanded and fastened together with glue and 3/4-inch brads or wire nails.

The tail fin is cut from a piece of 1/4-inch plywood and fastened in the slot behind the cockpit with glue.

A windshield may be made by cutting a small strip of plastic on the type used for various types of display boxes, and gluing or tacking it in position in front of the cockpit.

The racing number and other markings may be applied to the boat with a crayon, followed by a protective coat of clear varnish or shellac.

RACING BOAT



### KITES

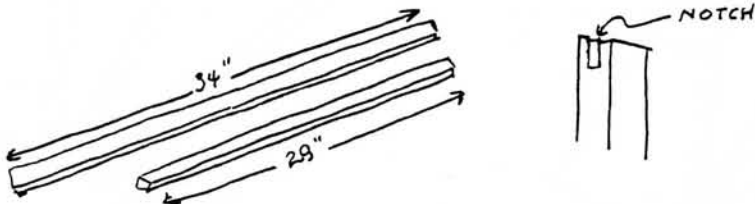
Kites are easy and fun to make and fly. In building kites keep these in mind:

- \* Rice paper and bamboo are the best construction materials. However, lightweight and flexible dowels or screen molding and butcher paper or craft paper will do well. Bamboo can be bent easily by heating over a candle flame.
- \* All joints should be both glued and tied.
- \* Cut the paper an inch or so larger than the framework so that it will have a tab to wrap around for gluing.
- \* Leave slack paper when cutting if you plan to paint the kite because some paper shrinkage will occur.
- \*The bridle, a loop of cord generally running from the upper part of the kite to the is the heart of any kite. Determining where to attach the kite string and bridle is largely a trial and error affair, but remember that the top of the kite must be lifted to catch the wind.
- \*Tails may need to be added for direction.

### HOW TO MAKE A TWO STICK KITE

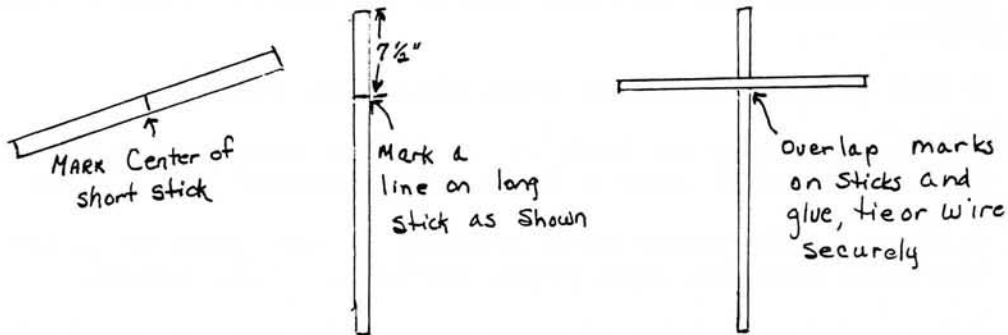
Materials: 2 kite sticks, one 34" and one 29"  
Ball of strong string  
Sheet of strong, lightweight paper, 36" x 34"  
Paste or glue  
Coping saw, scissors, pencil, and ruler

1. Cut two kite sticks to size; then notch ends. Use coping saw to cut notches. Cut toward the center to avoid splitting the sticks. Cut notch parallel to the wide side of the stick.

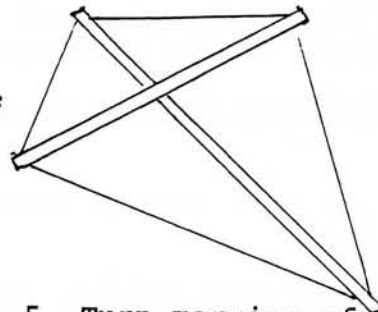




2. Tie and glue the two sticks together as shown. Fasten securely with string or fine wire.

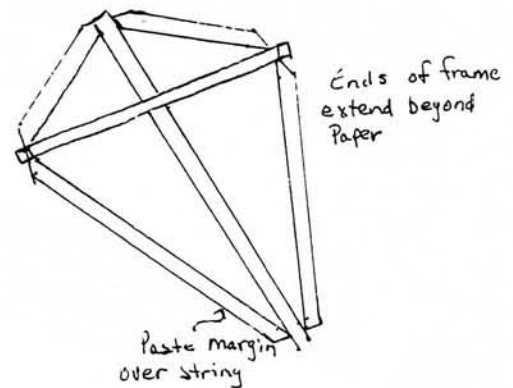
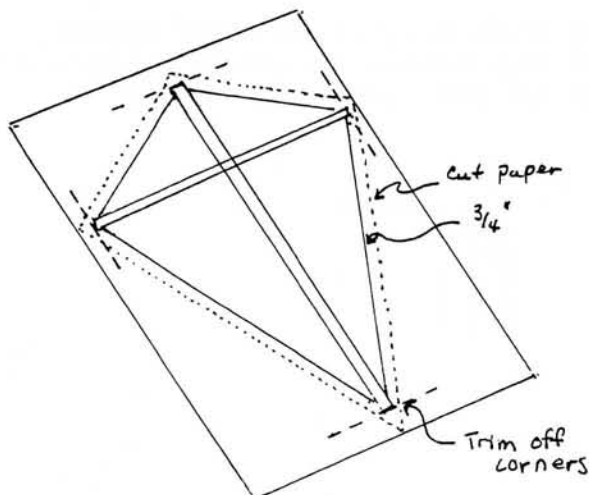


3. String the outer edge of the kite frame, slipping string through notches at ends of sticks; then tie.



4. Use kite frame for marking pattern on paper. Cut paper about  $\frac{3}{4}$ " to 1" outside the string.

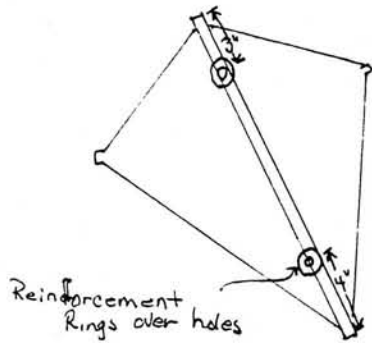
5. Turn margins of paper over string and paste or glue.



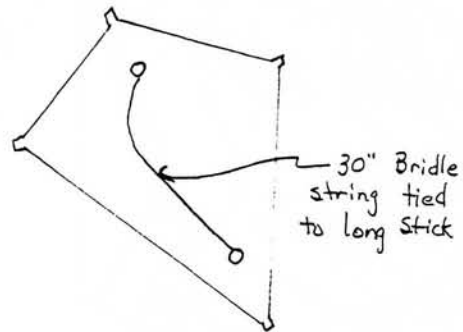
Wheels, Wings, Rudders

May, 1989

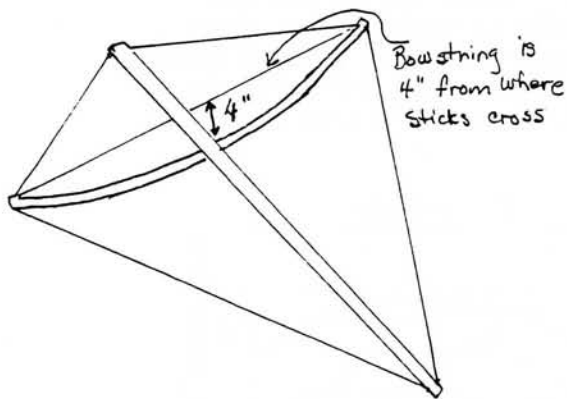
5. Punch 2 holes in paper over long stick - one 3" from top and the other 4" from bottom. paste reinforcement rings over holes.



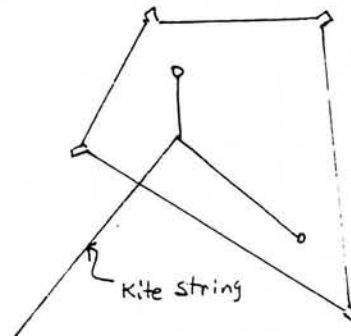
6. Attach a 30" bridle string; tie to long stick.



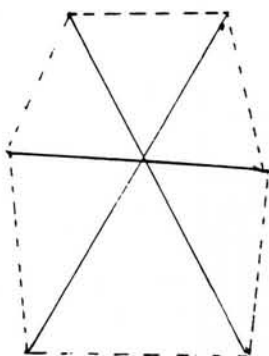
8. Turn kite over, frame side up. Tie a bowstring through notches at the ends of the cross-stick. Draw bowstring taught so cross stick bows about 4".



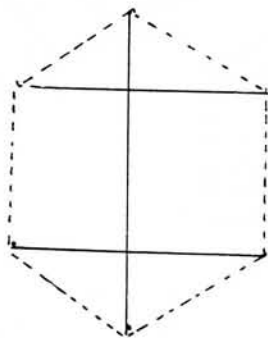
9. Tie ball of sting to bridle about 1/3 of the distance from the top. Usually no tail is needed for this kite in moderate wind. Point where kite string is tied to bridle can be adjusted until kite flies best.



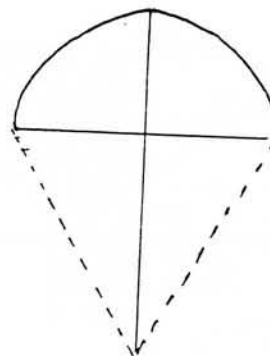
Other kite shapes:



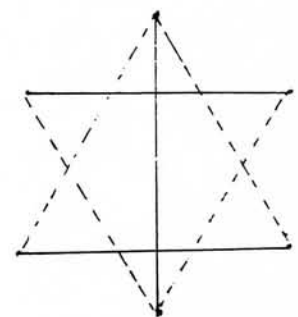
Three Sticker



Hexagram



Bow



Six Pointed Star

Solid lines = sticks

Broken lines = string