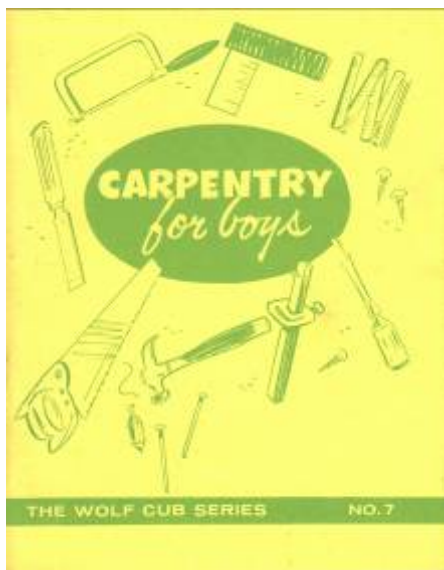


## Carpentry For Boys

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The Wolf Cub Series No. 7

(1965)

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Editor's Note:

The reader is reminded that these texts have been written a long time ago. Consequently, they may use some terms or express sentiments which were current at the time, regardless of what we may think of them at the beginning of the 21<sup>st</sup> century. For reasons of historical accuracy they have been preserved in their original form.

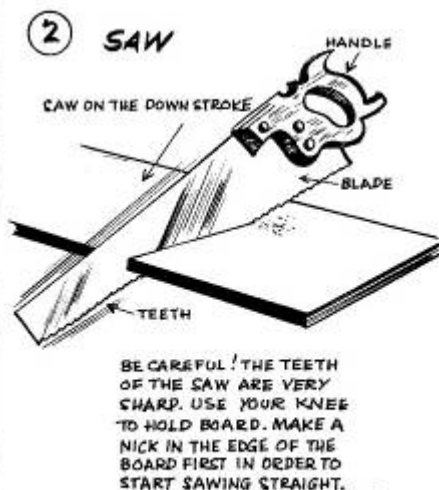
If you find them offensive, we ask you to please delete this file from your system.

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# The BASIC TOOLS

LET'S START BY GETTING TO KNOW OUR BASIC TOOLS. PRACTISE USING THESE TOOLS UNTIL YOU CAN HANDLE THEM WITH EASE. KEEP HANDS OUT OF THE WAY OF MOVING TOOLS AT ALL TIMES.



## Carpentry For Boys

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### ③ COPING SAW

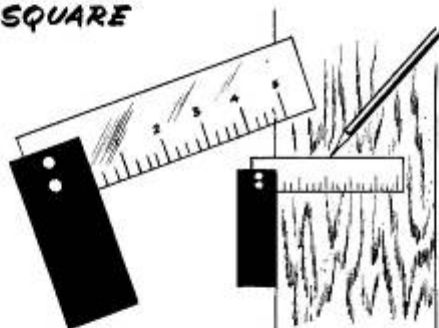


A COPING SAW IS USED TO CUT CURVES AND HARD-TO-CUT AWKWARD ANGLES. THE BLADE TWISTS FREELY WITH THE HANDLE. KEEP HANDLE TIGHTLY LOCKED.



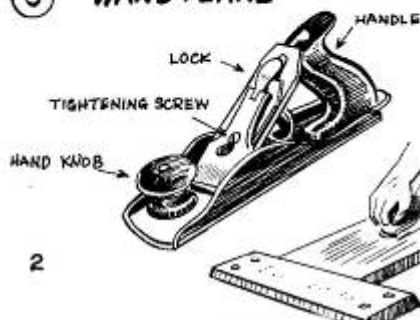
YOU NEED A VISE WHEN YOU USE A COPING SAW.

### ④ SQUARE



A SQUARE IS VERY USEFUL. IT IS USED TO TRUE THE END OF A PIECE OF WOOD, FOR MARKING A STRAIGHT LINE AND FOR MEASURING.

### ⑤ HAND PLANE



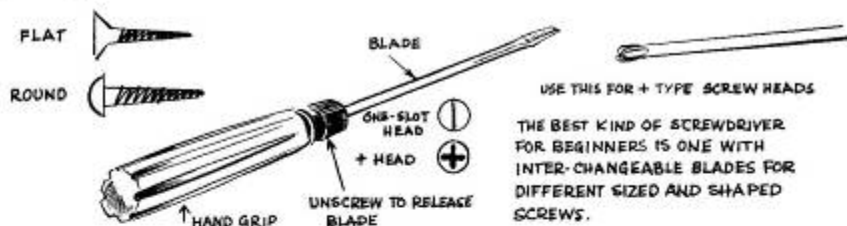
ALL WOOD TO WHICH WE WANT TO GIVE A SMOOTH SURFACE MUST BE PLANED BEFORE SANDING. WE USE THE PLANE ALSO TO REDUCE THE WIDTH OF A BOARD.



THIS IS A BENCH BOARD, NAILED OR SCREWED TO THE BENCH. PUSH BOARD TO BE PLANED AGAINST IT.

## Carpentry For Boys

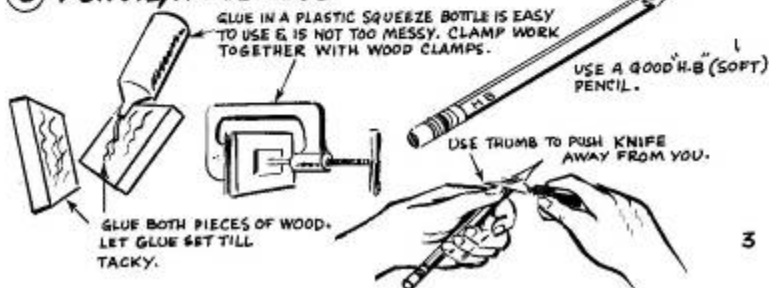
### ⑥ SCREWDRIVER

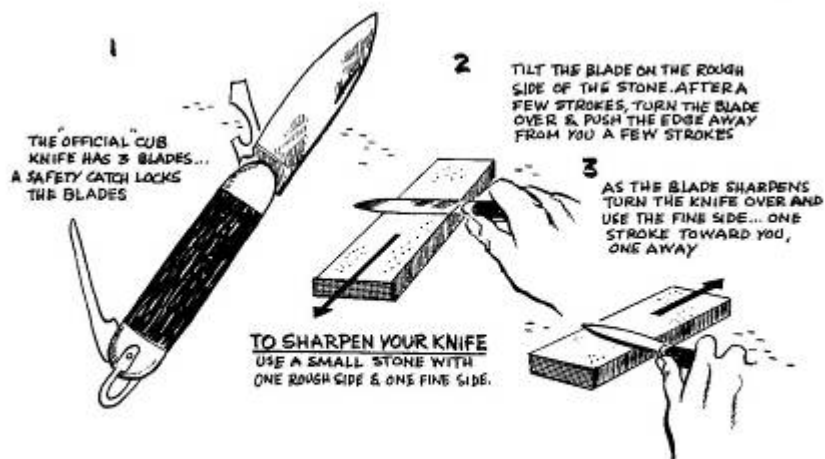


### ⑦ RULER, COMPASS

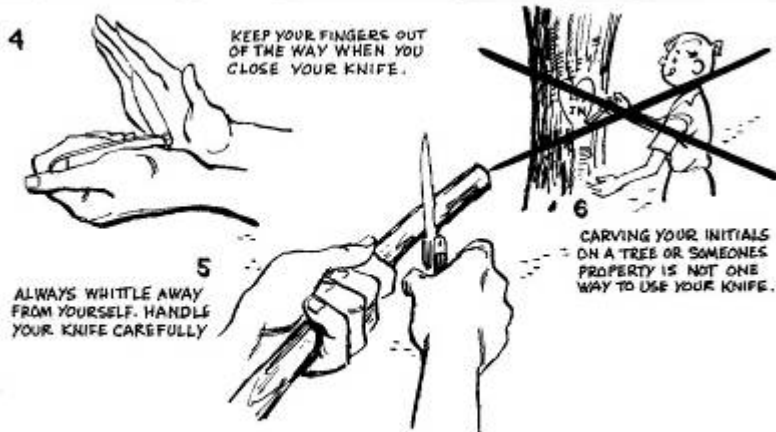


### ⑧ PENCIL, WOOD GLUE





## The KNIFE and its uses!





KEEPING YOUR TOOLS SHIP-SHAPE  
IS OF THE UTMOST IMPORTANCE.  
RUB TOOLS WITH AN OILY  
RAG BEFORE PUTTING THEM AWAY.  
WRAP THEM UP IN AN OILY RAG.

## OILSTONE



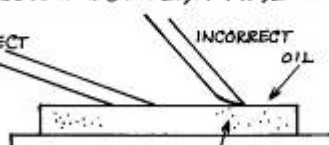
BUY A GOOD OIL STONE  
FROM A HARDWARE STORE.

SHARPENING CHISELS, PLANE, ETC.

CORRECT

INCORRECT

OIL

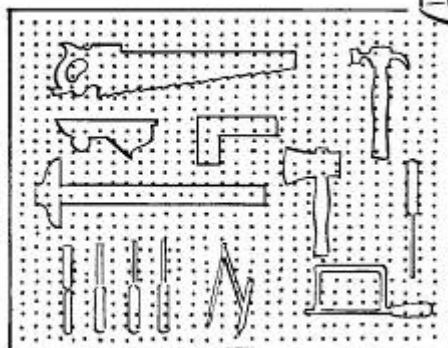


OIL STONE



## DIPPING

TO KEEP RUST AWAY  
DIP YOUR TOOLS IN  
VARSOL & WIPE CLEAN  
AFTER USING VARSOL.



KEEP A TOOL BOARD  
HUNG ABOVE YOUR  
WORK BENCH.

## WILLOW WHISTLE

(USING YOUR KNIFE)



CUT OFF A SECTION OF A STRAIGHT WILLOW BRANCH ABOUT 3 OR 4 INCHES LONG & ABOUT  $\frac{1}{2}$ " IN DIAMETER. WHITTLE ONE END ON A SLANT TO FORM A MOUTHPIECE THEN NOTCH AS ILLUSTRATED. PUSH CORE OF WOOD CAREFULLY OUT OF ITS BARK SHELL

## USING your tools!

### MAGIC WINDMILL



CUT ABOUT A DOZEN NOTCHES ON A SOFT WOOD STICK WHICH IS  $\frac{1}{2}$ " SQUARE AND 7" LONG. PIN OR NAIL A 3" WOODEN PROPELLER ON THE END OF THE STICK. THEN RUB A PENCIL QUICKLY OVER THE NOTCHES. THE VIBRATIONS MAKE THE PROPELLER ROTATE.



### PAPER KNIVES

PAPER KNIVES ARE FAIRLY SIMPLE TO WHITTLE. USE DIFFERENT WOODS, MAKING USE OF THE KNOTS, TWISTS, ETC. IN THE WOOD TO MAKE INTERESTING HEADS FOR YOUR KNIVES. PAINT IN BRIGHT COLOURS.

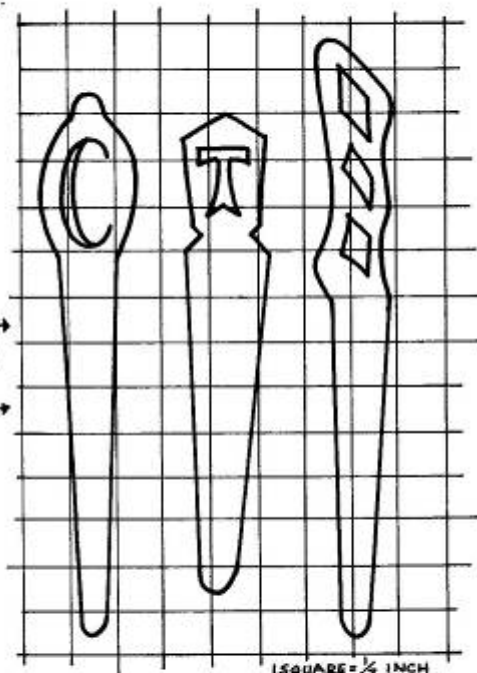


USE THE NATURAL SHAPE OF WOOD TO MAKE BIRD'S HEAD.

THE 3 KNIVES ON THE RIGHT ARE SHAPED FROM HARD WOOD. BIRCH, MAPLE & WALNUT ARE SUITABLE. THE WOOD SHOULD BE  $\frac{3}{16}$  THICK. DRAW THE DESIGN ON PAPER FIRST. THEN, BY USING CARBON PAPER, TRANSFER IT TO THE WOOD. USE A FILE TO MAKE A CUTTING EDGE.



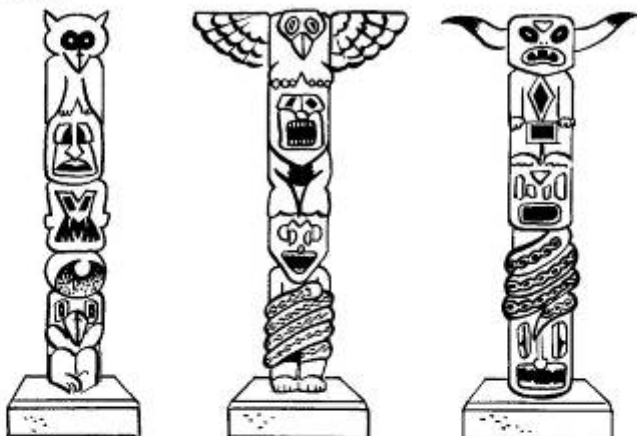
USE THE SHAPE OF THE WOOD



SELECT A PIECE OF WOOD FOR ITS COLOUR & GRAIN. SAND SMOOTH AFTER CARVING. VARNISH.

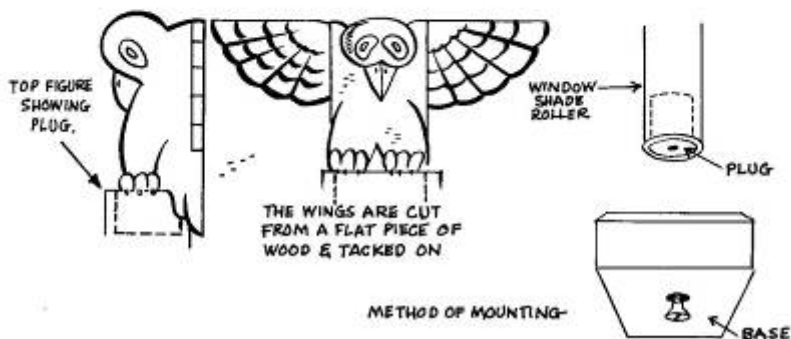


### TOTEMS



CARVED & CAREFULLY PAINTED MINIATURE TOTEM POLES MAKE FINE GIFTS. FROM AN OLD WINDOW SHADE ROLLER CUT AN 8" SECTION, CUT A WOODEN PLUG & GLUE IN THE BOTTOM. SKETCH OUTLINE FIGURES IN

PENCIL. WITH A VERY SHARP KNIFE CARVE THE FIGURES AS SHOWN. FASHION THE TOP HEAD TO ACT AS PLUG. PAINT IN BRIGHT COLOURS. MOUNT ON 2x4" BASE OF BALSA OR PINE



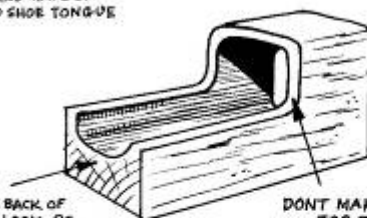
### NECKERCHIEF SLIDES



YOU CAN SPEND MANY HAPPY HOURS WHITTILING NECKERCHIEF SLIDES FROM SOFT WOOD, SUCH AS WHITE PINE, POPLAR, WILLOW & BASS.

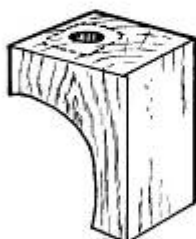
EARS MADE OF OLD SHOE TONGUE

A COW'S-HEAD SLIDE MADE FROM A FRUIT PIT. HORNS ARE SPURS FROM A COCK'S LEGS.



THIS IS THE WAY THE BACK OF THE BLOCK SHOULD LOOK. BE SURE TO LEAVE ENOUGH WOOD FOR THE FIGURE.

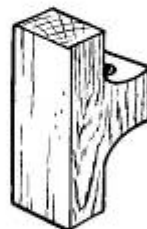
DONT MAKE WALLS TOO THIN.



CUT OUT OF 1/2 TO 2" MATERIAL, DEPENDING ON DESIGN.



SMALL HOLES CAN BE BORED OR DRILLED FIRST, AND ENLARGED WITH A KNIFE.



THIS SHAPE BLANK USED FOR CARVING DOLLS & TOTEM POLES.



A NECKERCHIEF MADE FROM THE VERTEBRA OF A SHEEP

FROM THE BLANKS SHOWN HERE YOU CAN WHITTLE ANY DESIGN YOU WISH. USE POSTER PAINT FOR PAINTING. FINISH WITH CLEAR SHELLAC.

### HOW TO CARVE A

# propeller

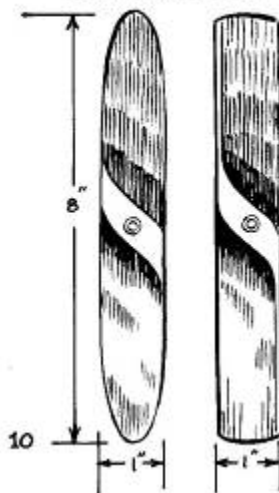
THIS PROJECT IS A LITTLE TRICKIER THAN THE REST BUT ITS WELL WORTH THE EFFORT. USE A SOFT WOOD THAT YOU CAN WHITTLE. BALSA WOOD IS POPULAR BECAUSE IT IS VERY EASY TO CARVE & YET IS FAIRLY STRONG.



DRAW THE SHAPE ON BLOCK WITH PENCIL



PROPELLERS CAN BE SHAPED TO SUIT.



$\frac{1}{4}$ " COPPER TUBING FOR BEARINGS IN PROPELLERS & BODY. DRILL HOLE IN PROPELLER & INSERT TUBING.



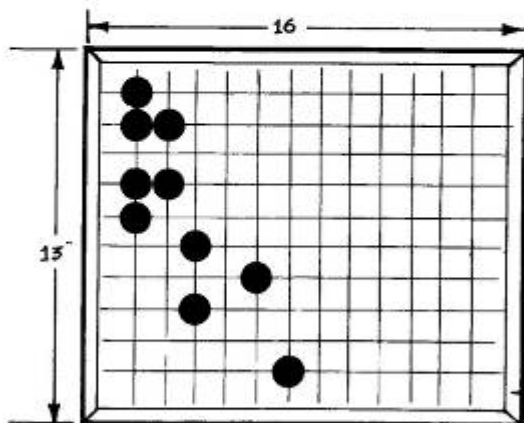
ABOUT  $3\frac{1}{4}$ " LONG

USE BRASS HINGE PIN ON ONE END OR USE A LONG PIN SUCH AS A LADY'S HAT PIN.

# MUD MAT

(USING THE HAMMER)

THIS IS A GOOD PROJECT FOR LEARNING TO USE THE HAMMER. IT WILL ALSO KEEP THE HOUSE MUCH CLEANER. MAKE THE BASE FIRST FROM A PIECE OF HARDWOOD—BIRCH, MAPLE, ETC. LEAVE  $\frac{1}{8}$ " BETWEEN CAPS. LAY OUT AS SHOWN. THE DISTANCE BETWEEN LINES IS THE DIAMETER OF CAP PLUS  $\frac{1}{8}$ ".

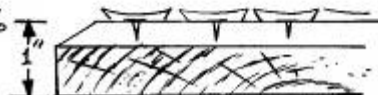


USE POP BOTTLE CAPS WITH CRIMPED EDGE FACING UP.



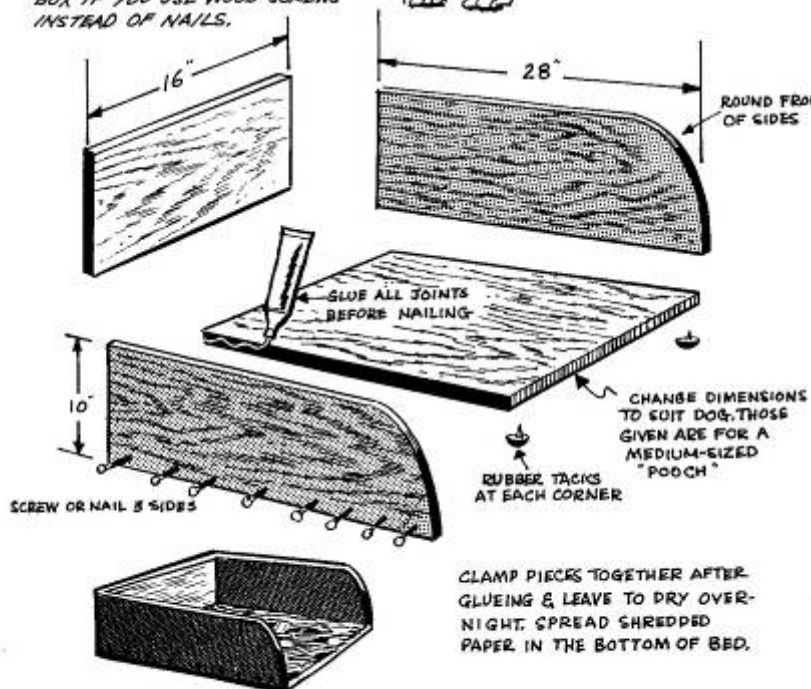
USE A STRONG, WIDE, FLAT-HEADED NAIL (THE TYPE USED FOR SHINGLES)

LAY OUT PENCIL LINE SQUARES. CENTRE BOTTLE CAPS, NAIL INTO PLACE



## dog bed

HERE'S A SIMPLE BED FOR FIDO. USE 1" PINE IF YOU CAN GET IT BECAUSE PLYWOOD WOULD SPLIT TOO EASILY ON THE EDGES FOR THIS JOB. PAINT IT DARK GREEN. IT WILL BE A STURDIER BOX IF YOU USE WOOD SCREENS INSTEAD OF NAILS.

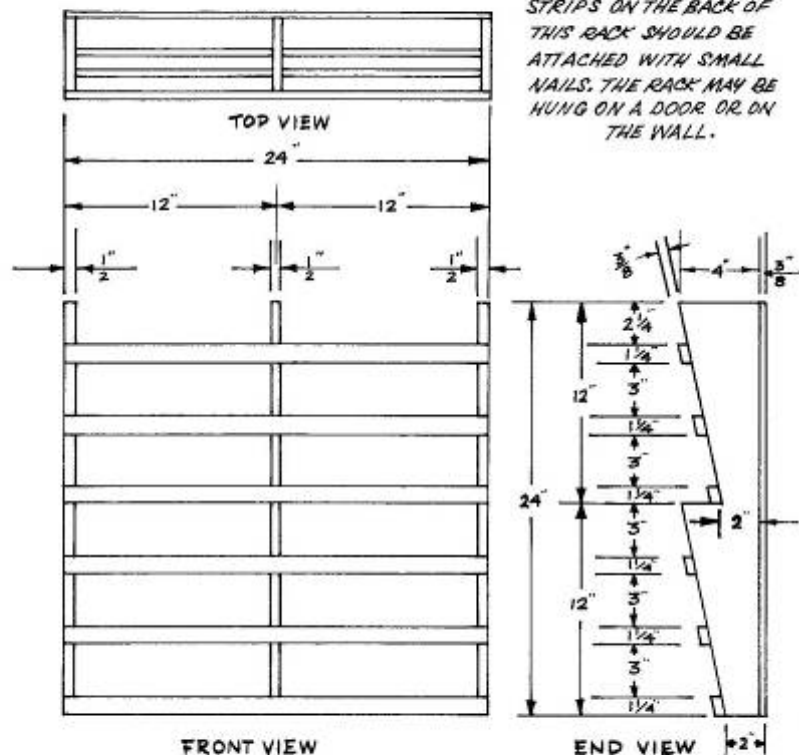


CLAMP PIECES TOGETHER AFTER GLUEING & LEAVE TO DRY OVER-NIGHT. SPREAD SHREDDED PAPER IN THE BOTTOM OF BED.



# MAGAZINE Rack

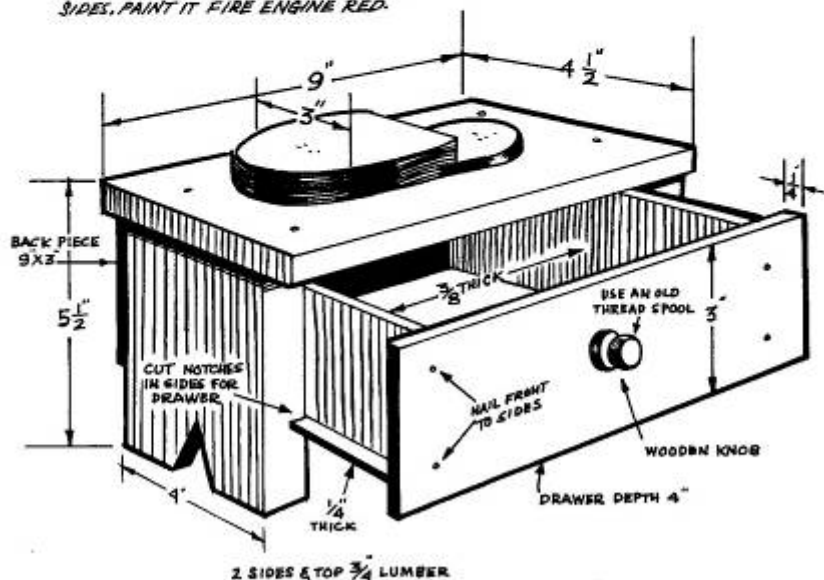
THIS WILL BE A REAL HELP  
IN YOUR ROOM TO KEEP  
THINGS TIDY & NEAT. THE  
STRIPS ON THE BACK OF  
THIS RACK SHOULD BE  
ATTACHED WITH SMALL  
NAILS. THE RACK MAY BE  
HUNG ON A DOOR OR ON  
THE WALL.





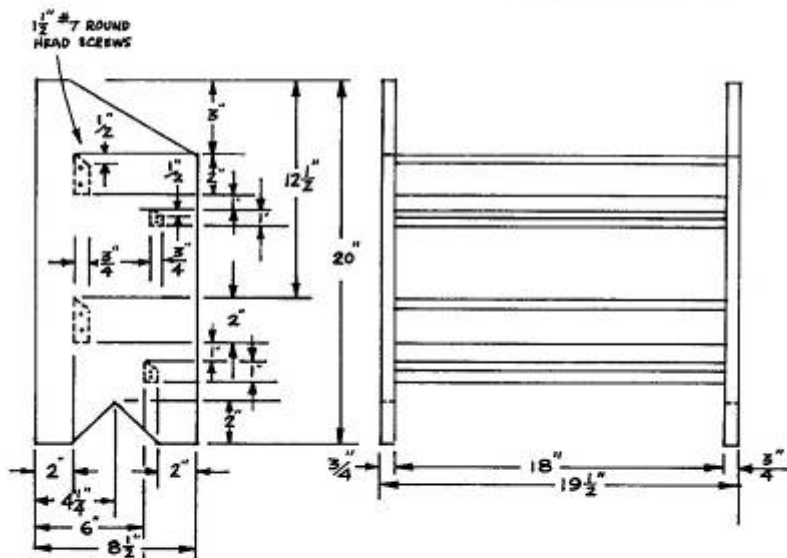
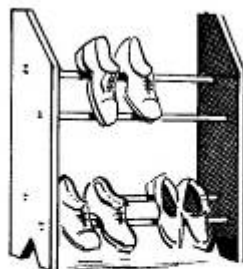
# Shoeshine Box

HERE'S A SIMPLE SHOE BOX FOR YOU TO BUILD. YOU NEED  $\frac{1}{4}$ ",  $\frac{3}{8}$ " &  $\frac{3}{4}$ " LUMBER & SOME SMALL NAILS. THE FOOT REST IS NOT NECESSARY BUT IF YOU CAN MAKE IT, IT WILL PROVE USEFUL. THE DRAWER IS JUST A PLAIN BOX. DRAWER SLIDES ON NOTCHES THAT ARE CUT INTO THE TWO SIDES. PAINT IT FIRE ENGINE RED.



## SHOE RACK

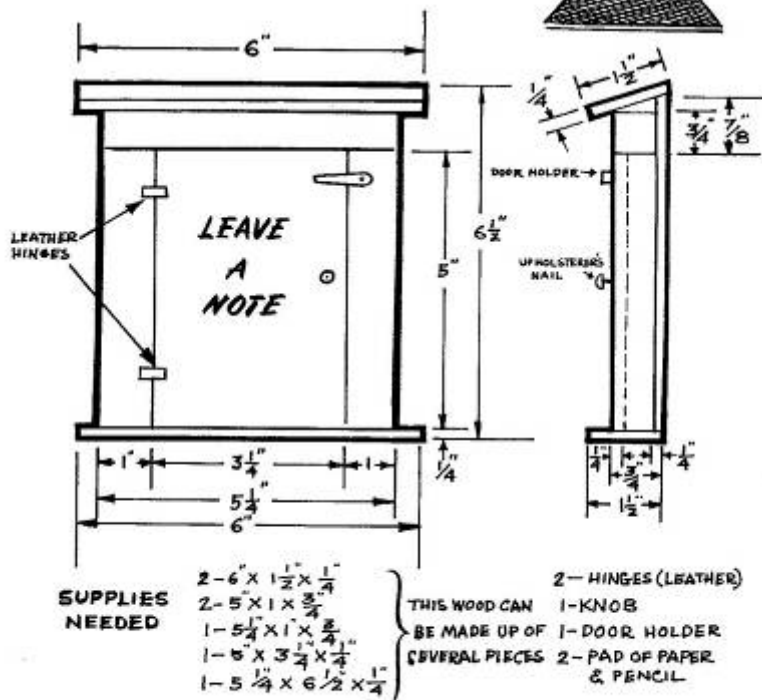
THIS PROJECT IS A LITTLE MORE DIFFICULT THAN THE OTHERS & ACCURATE MEASUREMENT IS NEEDED. A SOFT TYPE OF WOOD IS REQUIRED, SUCH AS  $\frac{3}{4}$ " PINE. THE CROSS PIECES ARE HELD IN PLACE BY TWO  $1\frac{1}{2}$ " #7 ROUND HEADED SCREWS. PLACE THE SCREWS THROUGH THE SIDE PIECES & INTO THE ENDS OF THE CROSS PIECES.



THIS SHOE RACK CAN STAND UP ON ITS OWN, OR IT MAY BE ATTACHED TO THE BACK OF A CLOSET DOOR, OR ON A CLOSET WALL WITH SCREW EYES.

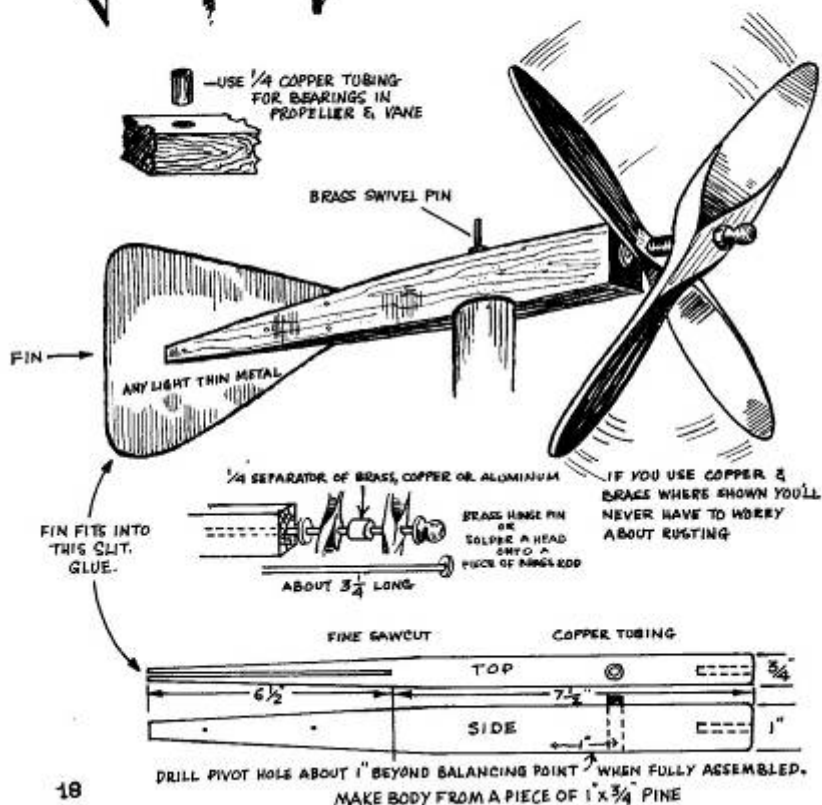
## NOTE PAD HOLDER

USE SOFT WHITE PINE WOOD. CUT TWO PIECES OF LEATHER FROM AN OLD PAIR OF SHOES FOR HINGES. THE LETTERING ON THE FRONT MAY BE BURNED ON WITH A BURNING TOOL. THIS PROJECT LOOKS BEST JUST STAINED & VARNISHED OR USE A PLAIN LINSEED OIL RUB.



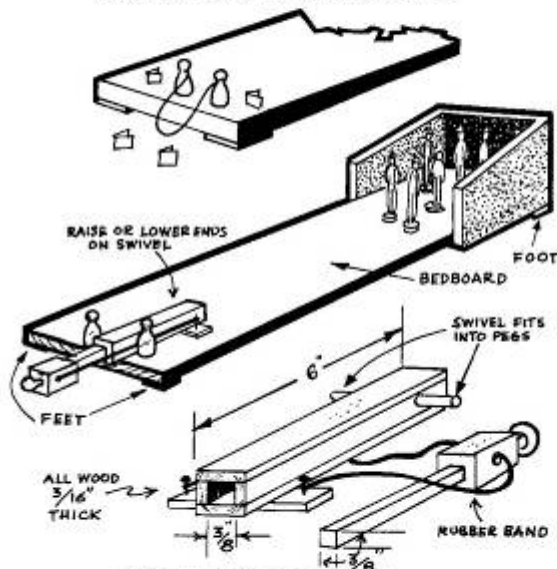


THIS WINDMILL IS MADE USING THE PROPELLER FOUND ON PAGE 20. A PIECE OF  $\frac{1}{4}$ " COPPER TUBING, AN OLD HINGE PIN, & A PIECE OF SCRAP ALUMINUM & A PIECE OF PINE. IT IS IMPORTANT TO DRILL THE HOLES STRAIGHT. PAINT ONE PROPELLER RED & THE OTHER BLUE



# SKITTLE ALLEY

IN THIS TOY THE MISSILE IS SHOT FROM A CANNON OR A CATAPULT. THE BEDBOARD SHOULD BE ABOUT 4' LONG X 11" WIDE. A SQUARE FOOT SHOULD BE GLUED OR SCREWED TO THE UNDERPART AT EACH CORNER. USE CARDBOARD FOLDED IN TWO FOR AMMUNITION. THE SOLDIERS CAN BE MADE FROM CLOTHES PEGS. THESE WILL NEED TO BE GLUED TO A BASE.

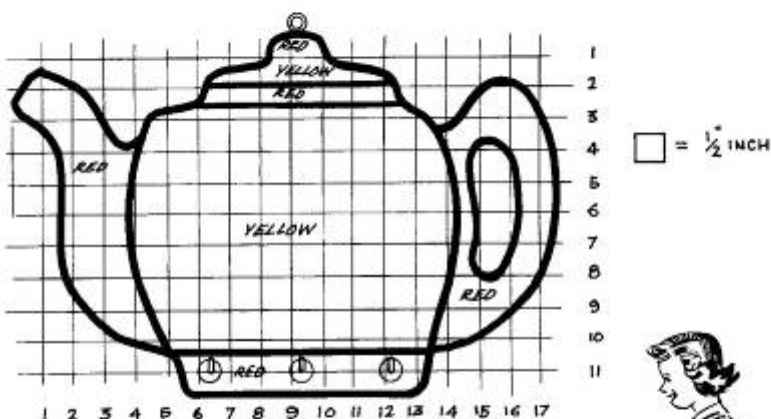


**THE CANNON** 4 PIECES OF TWIN PLYWOOD FORM THE BARREL OF THE CANNON. MAKE THE ROD FROM ONE SOLID PIECE OF WOOD WITH A SMALL KNOB SCREWED INTO THE LARGE END.



# POT holder rack

AN ITEM THAT WILL FIND A WELCOME HOME IN ANY KITCHEN IS THIS POT HOLDER RACK. A COPING SAW IS USED TO CUT OUT THIS PROJECT.

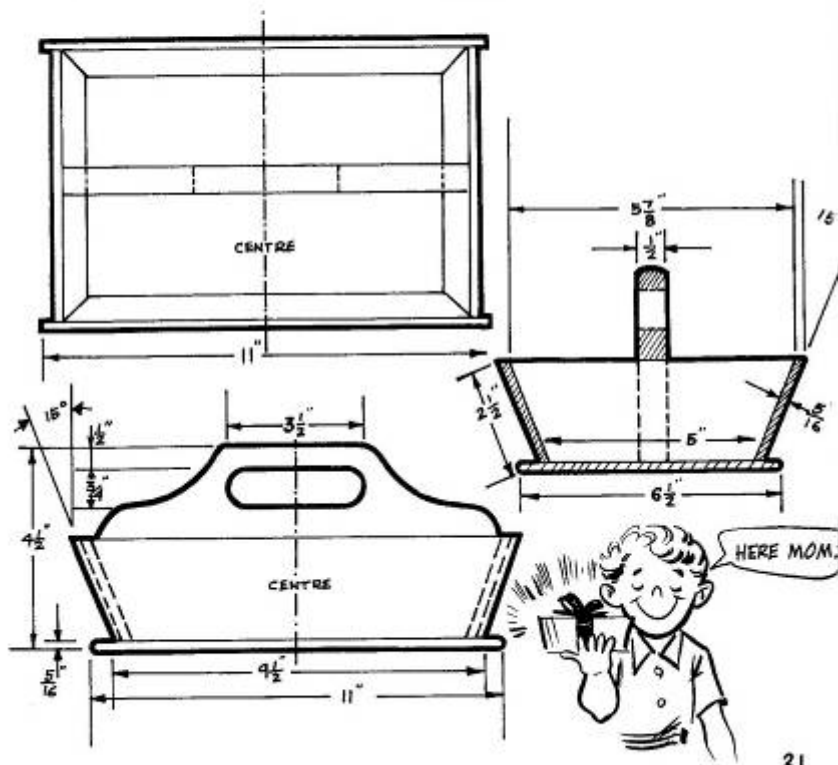


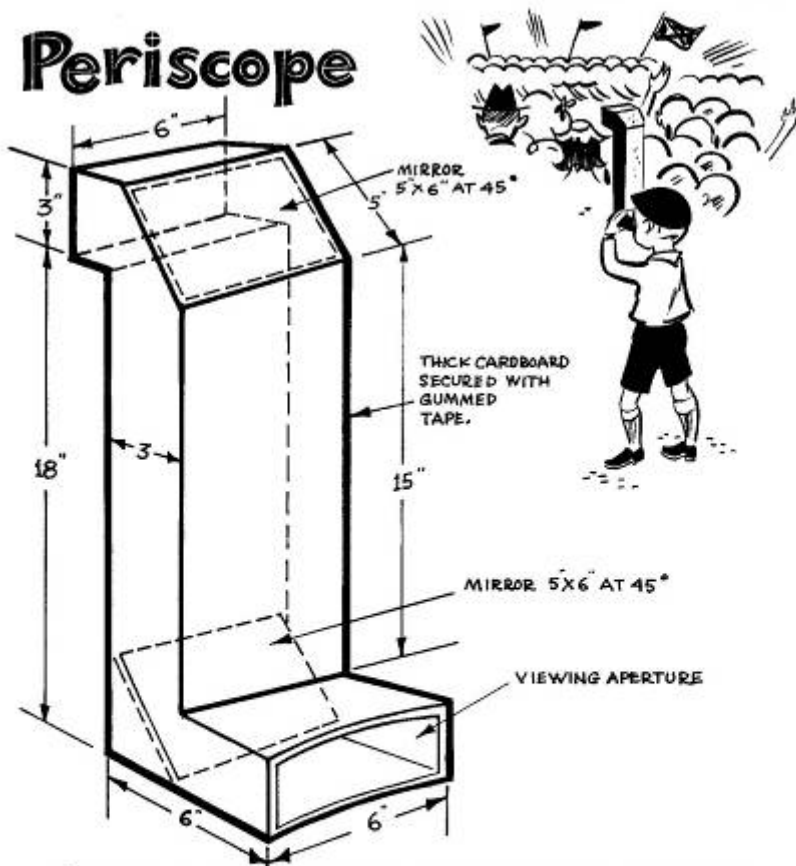
CUT WITH A COPING SAW FROM  $\frac{1}{4}$ " PLYWOOD. USE FILE & SANDPAPER TO SMOOTH ALL EDGES. APPLY A FLAT COAT OF WHITE PAINT & THEN USE ENAMEL FOR THE FINISH COAT. ADD 2 OR 3 SMALL BRASS CUP HOOKS & A SMALL SCREW EYE



# KNIFE & FORK Tray-

THIS PROJECT LOOKS MORE DIFFICULT THAN IT REALLY IS. USE  $\frac{5}{16}$ " THICK PINE, SAND ALL PIECES BEFORE STAINING OR PAINTING. THE HANDLE IS MADE FROM  $\frac{1}{2}$ " PINE.





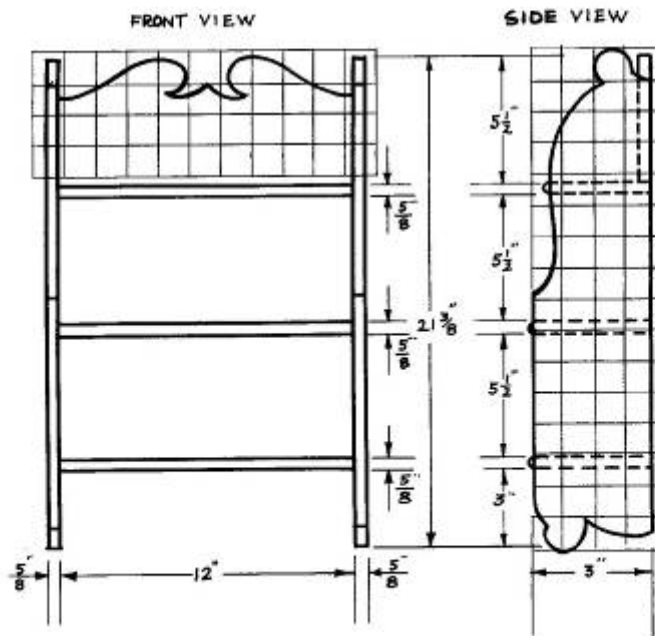
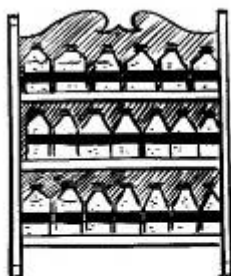
YOU WILL NEED THICK CARDBOARD, TWO MIRRORS 5x6" & A ROLL OF 1" GUMMED PAPER. CUT OUT 2 SIDES, FRONT, BACK & BOTTOM, PAINT THE INSIDE WITH BLACK PAINT. JOIN PIECES TOGETHER USING THE GUMMED PAPER. GUM THE JOINTS ON BOTH SIDES. LEAVE

THE BOTTOM SECTION TILL LAST. NOW INSERT TOP & BOTTOM MIRRORS ADJUST MIRRORS TO PROPER ANGLE, THEN GUM INTO PLACE. GUM BOTTOM PIECE INTO PLACE. CUT OUT HEADREST, SO THAT IT WILL FIT SNUGLY AGAINST YOUR EYES. PAINT THE OUTSIDE WITH ENAMEL.



## SPICERACK

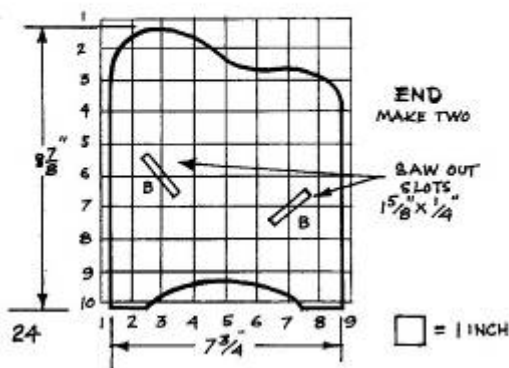
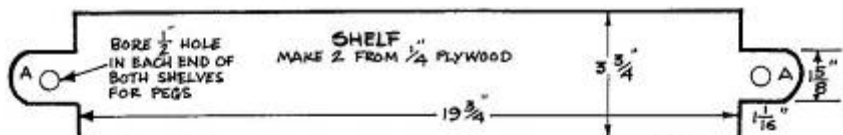
MOTHER WILL LOVE THIS.  
DIMENSIONS ARE GIVEN BUT  
YOU CAN CHANGE THESE TO SUIT  
HER SPICE JARS. BUILD FROM  
PINE & SAND SMOOTH ALL  
FINISHED PARTS. SHELLAC OR VARNISH.



## BOOK TROUGH



TRACE DIAGRAM OF BOOK-  
ENDS ONTO  $\frac{3}{8}$ " BOARD OR  
PLYWOOD. SHELVES MAY  
BE CUT ACCORDING TO  
MEASUREMENTS WITH-  
OUT TRACING. TO ASSEMBLE,  
INSERT "A" THROUGH "B";  
PUSH IN PEGS. SANDPAPER  
ALL EDGES. PAINT OR STAIN.

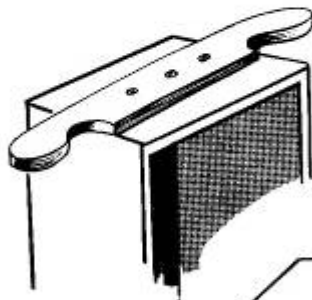
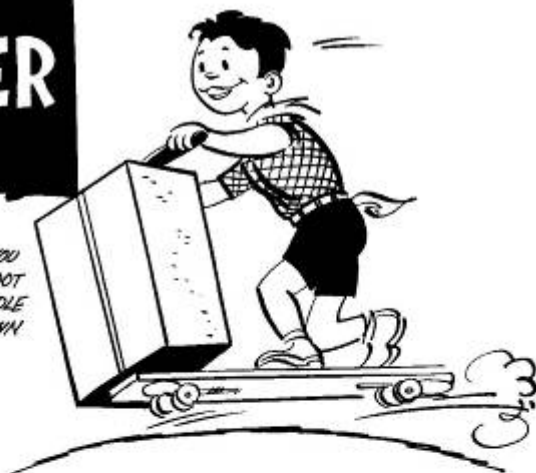


ROUND PEGS  
 $\frac{1}{2}$ " DIAMETER, 3" LONG  
TAPERED. MAKE FOUR.

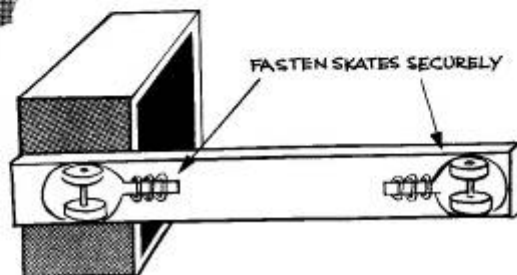


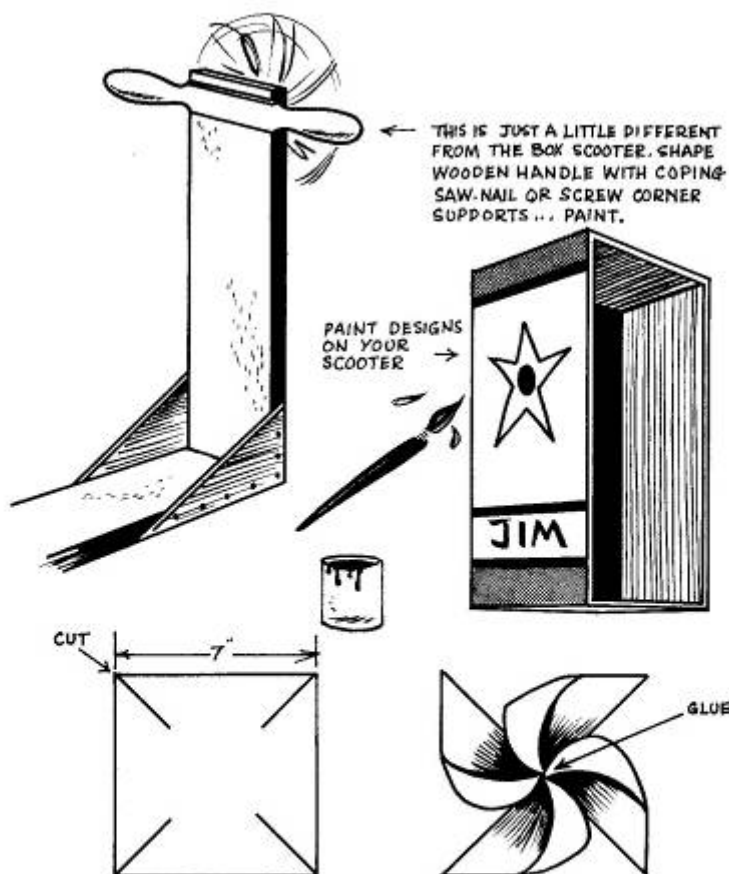
# SCOOTER

FOR A SKATE SCOOTER YOU  
NEED A WOODEN BOX, A FOOT  
BOARD, A SKATE & A HANDLE  
BAR. ASSEMBLE AS SHOWN  
ZOOM, YOU'RE OFF.



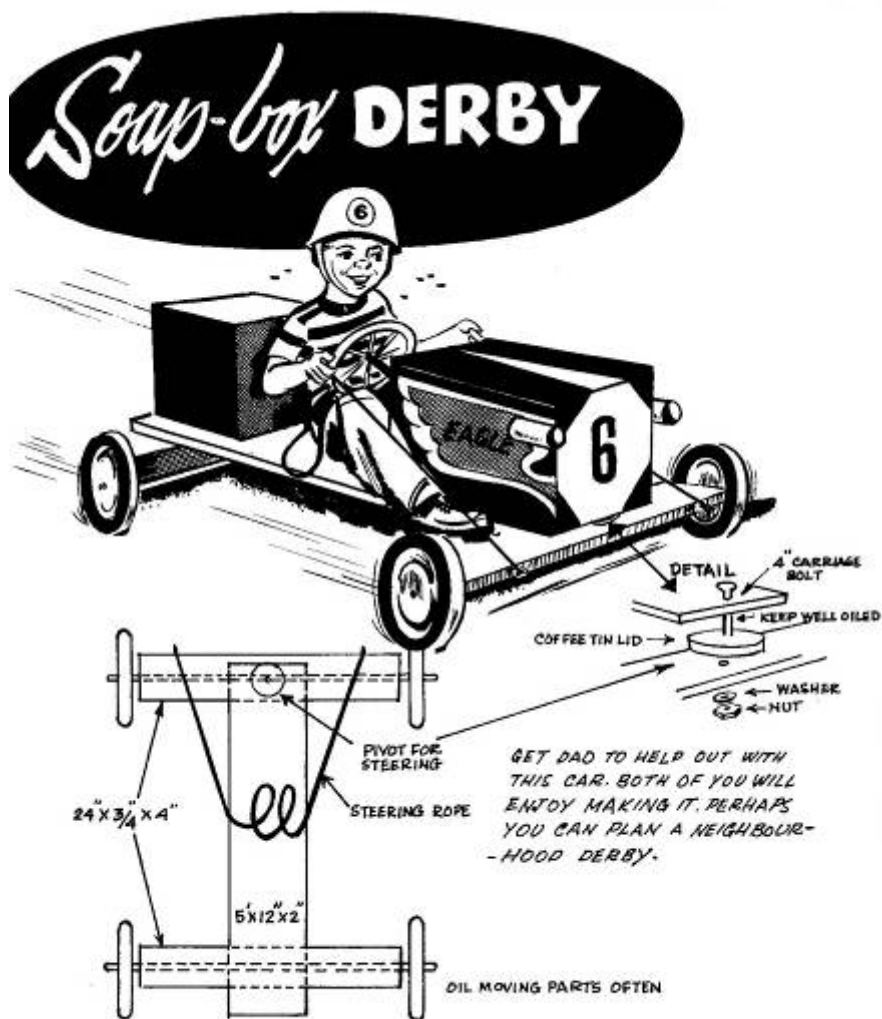
CUT HANDLE BAR FROM 1 INCH  
LUMBER. SCREW TO TOP OF BOX  
IF YOU CAN'T FIND A READY MADE  
BOX GET DAD TO HELP MAKE A  
SIMPLE ONE.

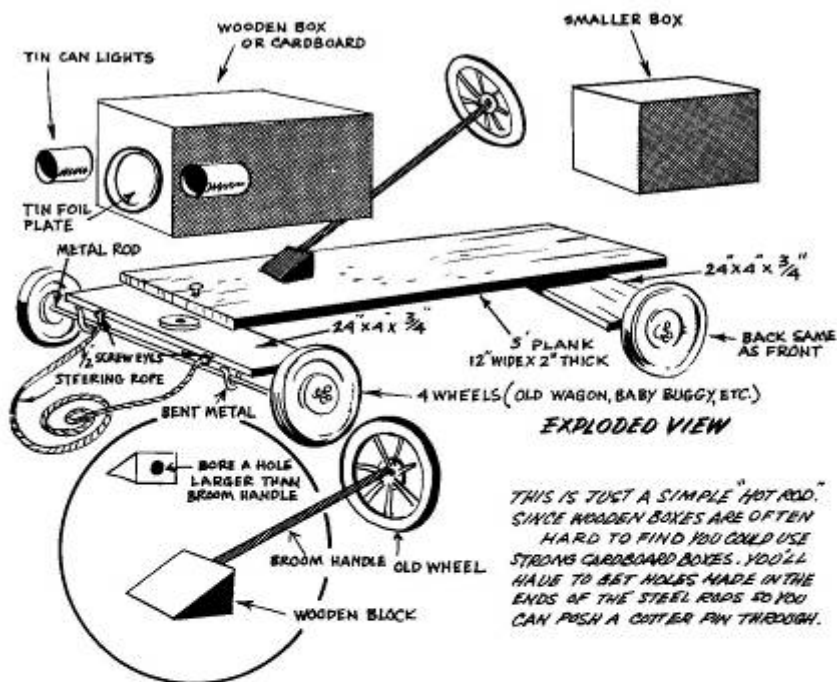




MAKE THIS WINDMILL OUT OF PLASTIC, OR STRONG PAPER. NAIL IT TO THE FRONT OF

YOUR SCOOTER. PUT A BEAD BETWEEN WINDMILL AND SCOOTER TO ACT AS WASHER TO KEEP WINDMILL AWAY FROM SCOOTER SO IT CAN TURN.





PAINT FRONT BOX LIKE THIS OR USE YOUR OWN DESIGN.



## **FINISHING**

### **(SANDING, STAINING, VARNISHING, PAINTING)**

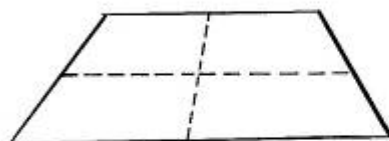
*THE WAY YOU FINISH YOUR WORK IS VERY IMPORTANT. A LITTLE EXTRA SANDING CAN MAKE A GREAT DEAL OF DIFFERENCE.*

*SUGGESTED HERE ARE THE MOST POPULAR METHODS OF FINISHING.*

#### **MAKE A SANDING BLOCK**



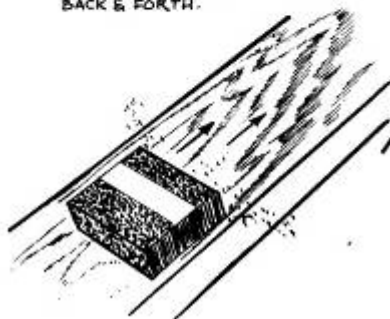
MAKE A BLOCK ROUGHLY 3" X 4" TO FIT IN YOUR HAND. FOLD SANDPAPER AROUND THE BLOCK



A SHEET OF SANDPAPER WILL PROBABLY BE LARGE ENOUGH TO COVER 4 SANDING BLOCKS.

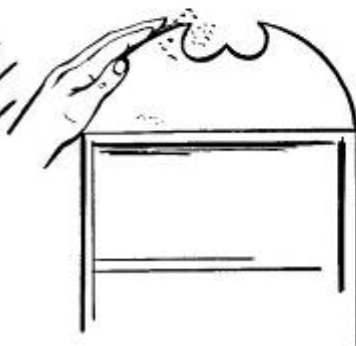
#### **SAND WITH THE GRAIN**

RUB IN SHORT STEADY MOVEMENTS BACK & FORTH.

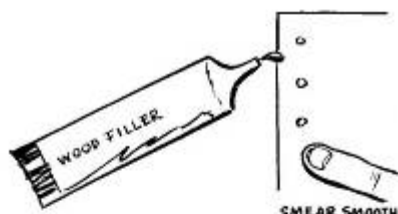


#### **CURVED SURFACES**

HOLD SANDPAPER AS SHOWN. SHAPE HAND TO FIT CURVES.







### FILL ALL NAIL HOLES

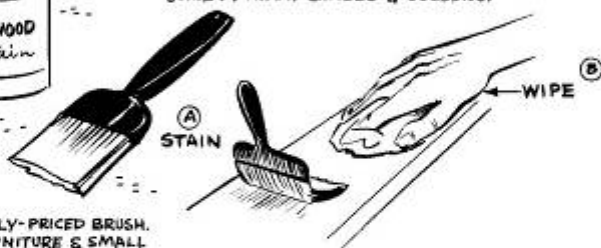
YOU CAN BUY WOOD FILLER IN TUBES OR MAKE YOUR OWN BY MIXING WOOD GLUE & FINE SAWDUST TOGETHER TO THE CONSISTENCY OF PUTTY. USE IMMEDIATELY

SMEAR SMOOTH WITH FINGER

### TO STAIN...



WOODWORK IS STAINED TO IMPROVE ITS NATURAL COLOUR. YOU CAN STILL SEE THE NATURAL GRAIN OF THE WOOD. STAINS MAY HAVE AN OIL OR A WATER BASE AND COME IN MANY SHADES & COLOURS.



BUY A MODERATELY-PRICED BRUSH. FOR MOST FURNITURE & SMALL PROJECTS USE A SMALL SIZE. RUB OFF EXCESS STAIN WITH CLEAN RAG

