

The Wolf Cub Series No. 8

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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 21st century. For reasons of historical accuracy they have been preserved in their original form.

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Working Models

Hi Wolf Cub,

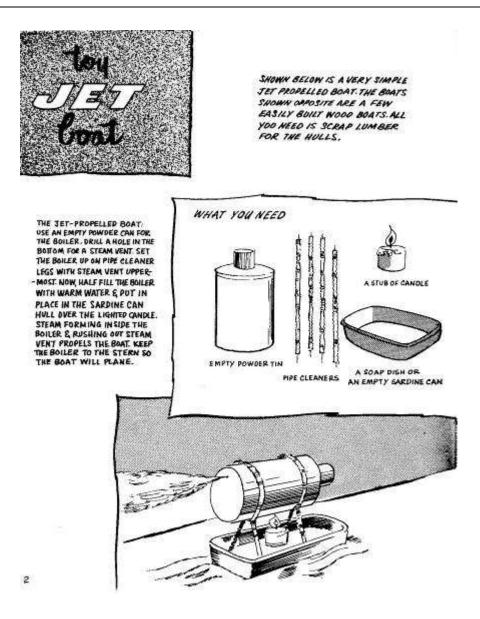
This book of working models is for all those Cubs who like to make things and also for the many other Cubs who like to know why and how things go.

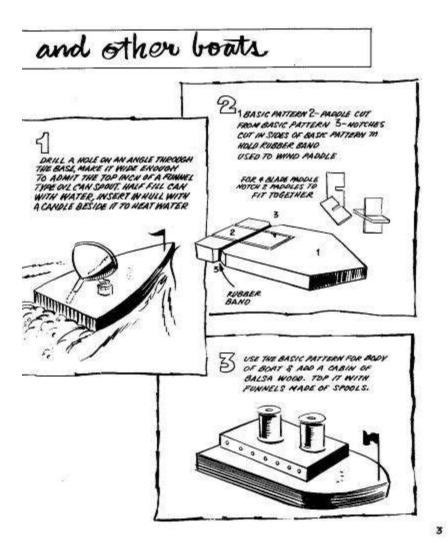
Some of these ideas are not quite as complete as they could be because we want you to add your own ideas on how things work and, if you like, change these models to suit your ideas. You will require help from your dad with those models which require cutting and soldering. We hope that you will enjoy making and playing with the models.

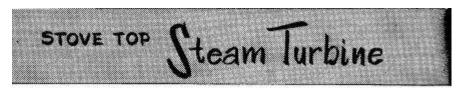
BOY SCOUTS OF CANADA

CONTENTS

Toy Jet Boat and Other Boats	2 - 3
Stove-Top Steam Turbine	4-5
Two Simple Turbines	6-7
The Eddy Bow Kite	8 - 9
Boomerang and Cross-Stick T	ype_ 10-11
Scout Weather Den	12- 13
Make Your Own Rain Gauge _	14
Model Windvane	15
Early Bird	16
Water Fountain	17
Make Your Own CO2	18-19
Make Your Own Jet _	20-21
Measuring Wheel	22 - 23
A Simple Flying Machine _	<u> </u>
Flying Wing	26
High Diver .	27
Jumping Jack	28 - 29
A Flying Model -	30-31
A Diver .	32

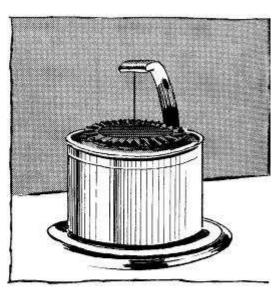


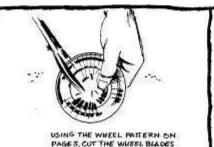




THE BREAT STRAM TURBINES IN MODERN OCEAN LINERS WORK ON THE SAME REINCIPLE AS THIS STOVE TOP MODEL. AS THE WATER BOILS, THE STEAM RUSHING OUT OF THE VENTS STRIKE THE BLADES OF THE FAM, TURNING IT AT A GOOD SPEED.

YOU WILL NEED A COFFEE CAH, THE END FROM \$25 CAN, A PIECE OF TIN 652XI 2 A THUM BTACK. KEP STOVE ELEMENT ON MODERATE HEAT

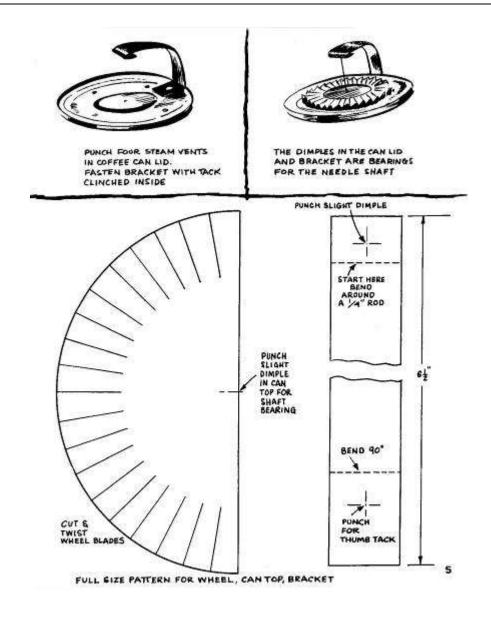




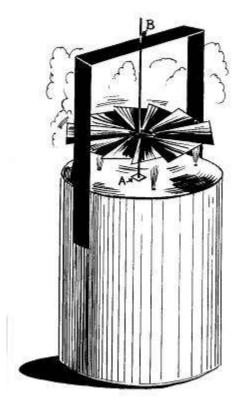
PAGE 5, CUT THE WHEEL PATTERN ON PAGE 5, CUT THE WHEEL BLADES WITH TH SNIPS. GIVE EACH BLADE A SLIGHT SIDEWAYS BEND



PUNCH A SMALL HOLE IN THE CENTRE OF THE FAN & DRIVE A DARNING NEEDLE THROUGH FOR A DISTANCE OF ABOUT 1/2 INCH.

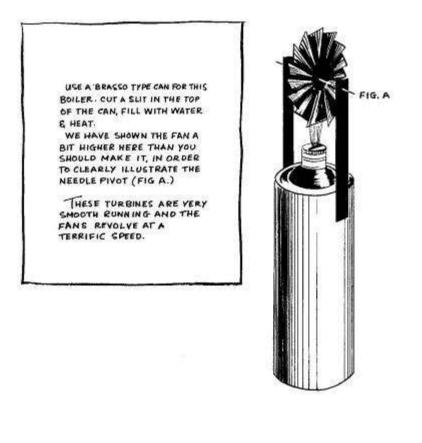


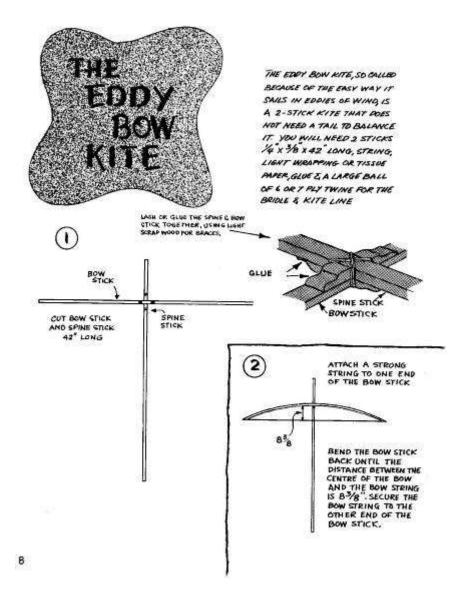
62 simple turbines

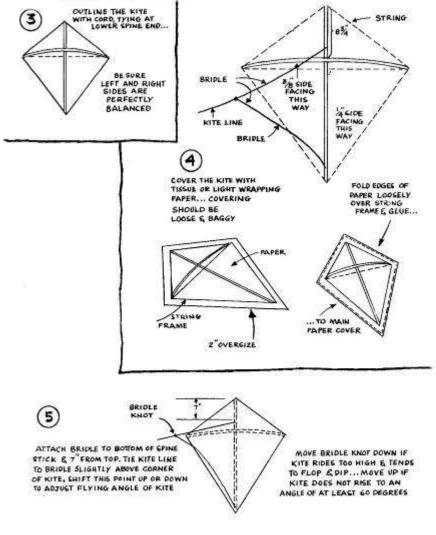


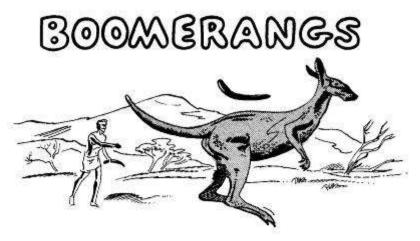
HERE ARE 2 MORE STEAM TURBINES FOR YOU TO MAKE. THE SHAPE OF THE TIN CAN IMME DIATELY SUGGESTS A MINIATURE BOILER. IN EACH MODEL THE MOVING PART IS A FAN MADE WITH THIM METAL.

USE A CONDENSED MILK TIN FOR THE BOILER. SOLDER A SMALL SQUARE OF TIN IN THE CENTRE OF BOILER (A.), & PUNCH FOUR STEAM VENTS AROUND IT. MAKE THE FAN WITH ABOUT TWELVE RADIAL CUTS. INSERT THE DARNING NEEDLE SHAFT & SOLDER IT SECURFLY TO THE FAN. MAKE A BRIDGE OUT OF TIN WITH A HOLE FOR THE AXLE (B.). SOLDER BRIDGE TO TIN.



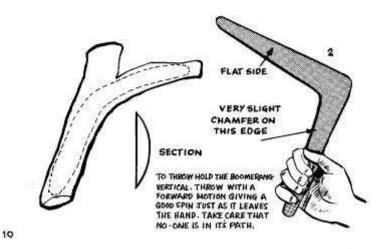


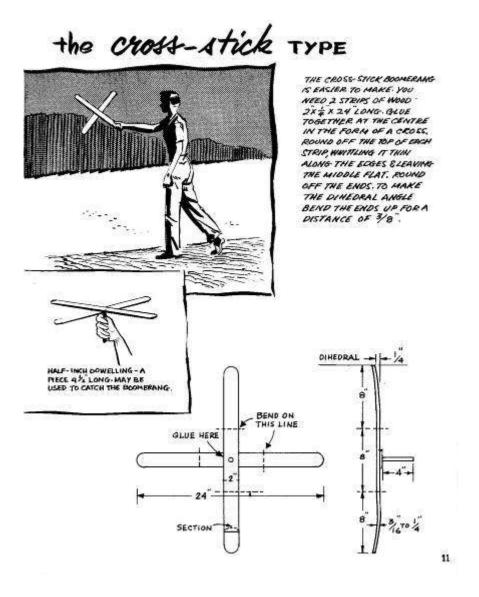




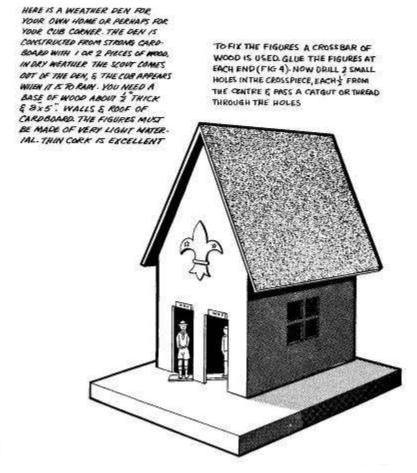
ALMOST ANY KIND OF WOOD WILL DO FOR A BOOMERANG SO LONG AS IT HAS AN EVEN LONG GRAIN. CUT A SUITABLE ELBOW FROM A TREE AS SHOWN, SAW IT LENGTH-WISE POWN THE MIDDLE SO AS TO

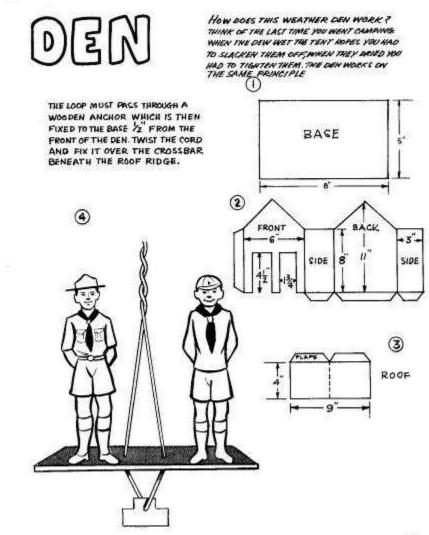
GET 2 BOOMERANGS FROM IT: THEN SHAPE EACH PIECE AS SHOWN IN FIG. 2. ONE SIDE IS FLAT THE OTHER CURVED. SHAPE AND FINISH WITH SANDRAPER.













THIS RAIN GAUGE WORKS ON THE SAME PRINCIPLE AS THE METEOROLOGISTS BUT IS FAR SIMPLER. YOU JOST NEED A FEW ITEMS

A 2 OL TOBACCO TIN. 1" DEEP 3/2 DIAMETER

TAKE A SHALLOW TIN THE SIZE OF THE TOP OF THE FONNEL & FILL IT EXACTLY 1"PEEP WITH WATER. MEASURE THIS AMOUNT IN A KITCHEN MEASURE. SAY THAT THERE ARE IS OZ. OF WATER, THEN EVERY OUNCE = /10 OF AN INCH OF RAIN. SO THE SMALL JAR MUST BE MARKED AT EVERY OUNCE FOR AS MANY AS IT WILL HOLD. YOU CAN MARK THE GLASS WITH A FILE OR A HACKSAW DE PÅJïr READrN6s 6 /<EsP A, eB".o9D. F YOU KEEP THIS FOR A YEAR IT'S INTERESTING TO COMPARE THE AMOUNT OF RAIN FALLING IN VARIOUS YEARS & NOTICE A PATTERN.



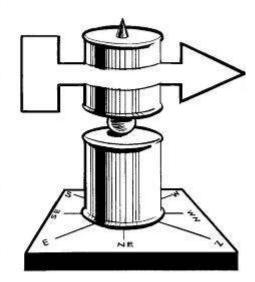
RUBBER BAND ROUND FUNNEL WHERE IT RESTS ON JAR SO RAIN WONT RUN DOWN OUTSIDE OF FUNNEL.

HERE IS A MODEL YOU CAN MAKE FOR YOUR SECOND STAR. IF YOU SET IT IN THE DREN IT WILL TELL WHICH WAY THE WIND IS BLOWING FROM.



You NEED A SQUARE PIECE OF WOOD ON WHICH YOU DRAW THE POINTS OF THE COMPASS DRIVE A 3" NAIL THROUGH THE BOARD & SET THE NAIL HEAD FLUSH. NEXT PUT A SPOOL, A ROUND BEAD & ANOTHER SPOOL ON THE NAIL.

COT OUT 2 VANES, PLUS 2 EXTRA POINTS FROM CARD-BOARD. GLUE THE VANES TOGETHER & AROUND THE SPOOL. GLUE THE EXTRA POINTS ON TO HELP BALANCE THE HEAVIER TAIL.

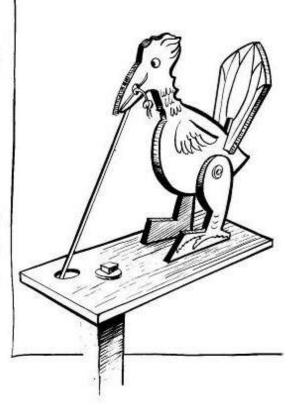


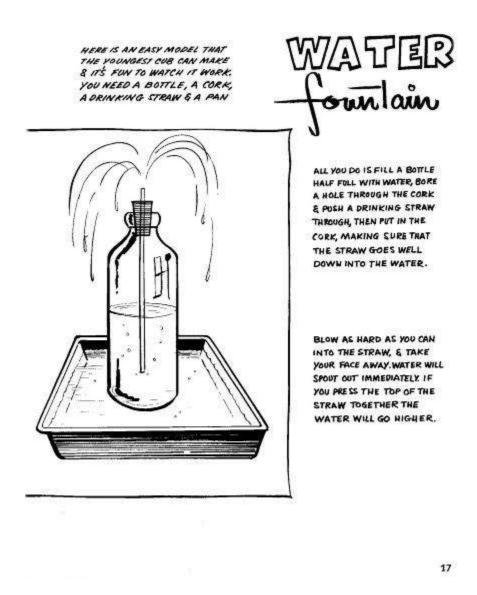
EARLY BIRD

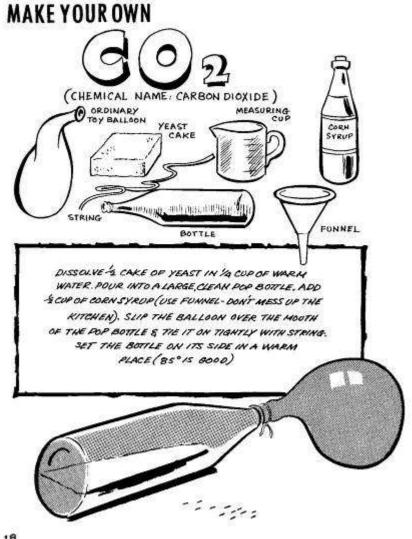
THIS WEATHER VANE IS ALSO A ROCKIMS WINP TOY, THE BIRD WHICH IS BRIGHTLY PAINTED IS CUT OUT OF THIN WOOD, BODY TAIL & 2 LEOS

DRAW YOUR PARTS FIRST ON YOUR WOOD & CUT OUT WITH A COPING SAW. SET THE TAIL AT RIGHT ANGLES FOR IT IS THIS WHICH CATCHES THE WIND & CAUSES THE BIRD TO ROCK BACK & FORWARD ON IT'S 2 LEGS WHICH ARE BOLTED TO ITS BODY.

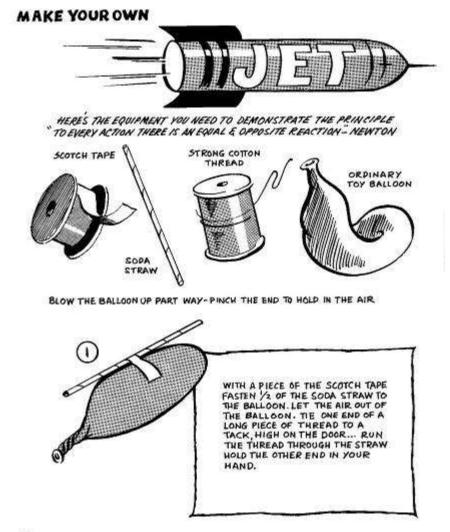
THE WORM IS A PIECE OF RUBBER FASTENED TO THE BULL AT ONE END & THE PLATFORM AT THE OTHER.USE A 4 STOYE BOLT TO JOIN THE LEGS & BODY & A 2" BOLT WITH WASHER TO FASTEN PLATFORM TO POLE.

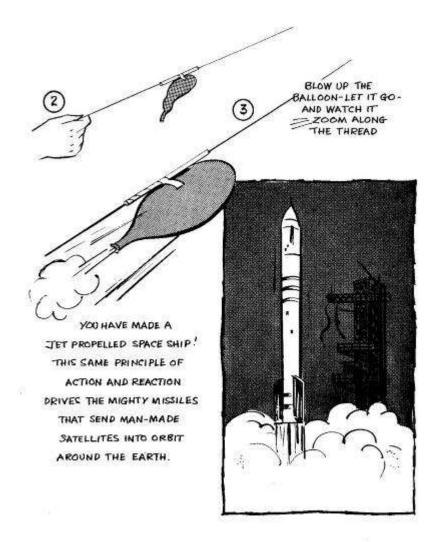


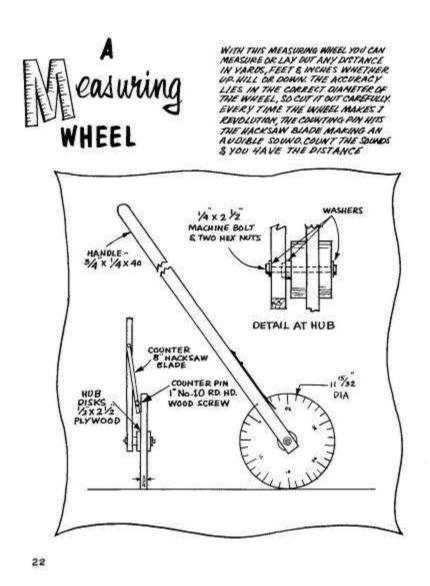


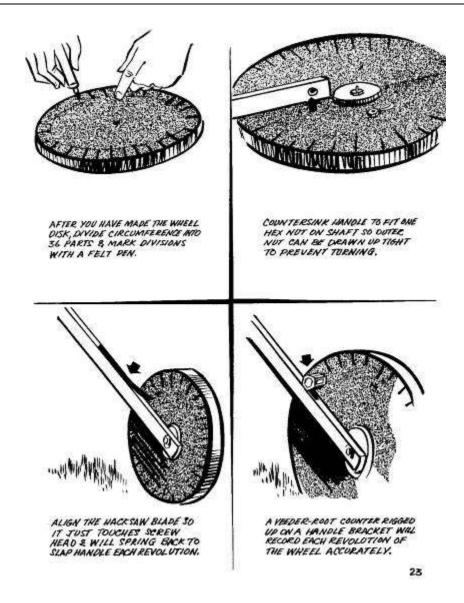


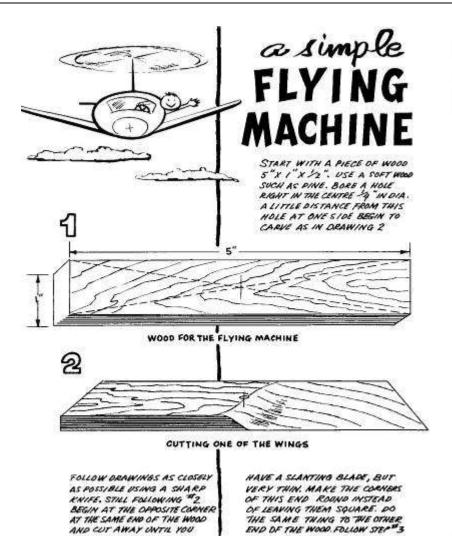


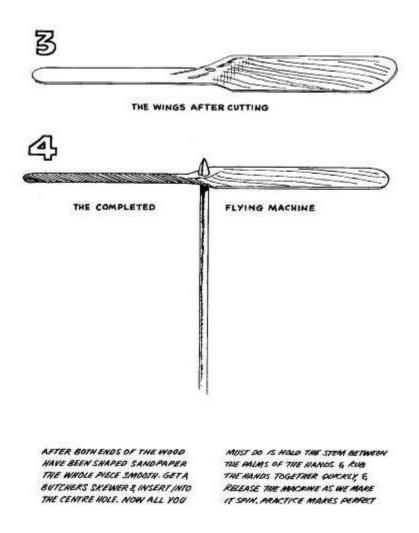


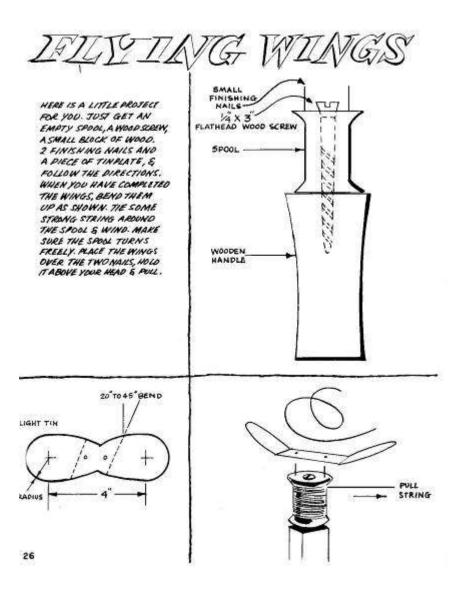






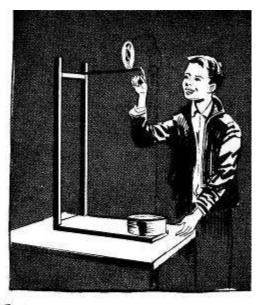






HIGH DIVER

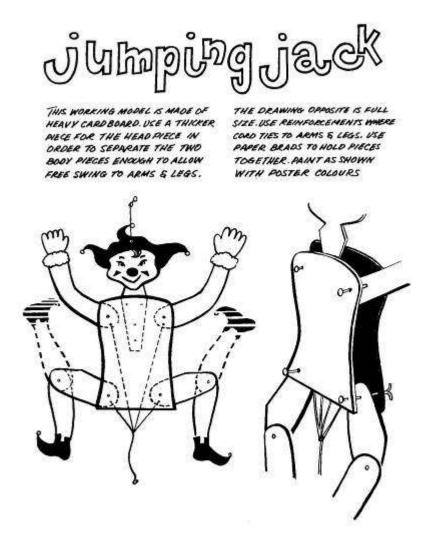
HERE'S A GAME THAT REQUIRES PRACTICE TO GET THE OWER INTO THE "POOL". HE IS MADE FROM 'E THICK WOOD AND PAINTED. THE DIVING BOARD IS MADE FROM 'B THICK STOCK IF NOT SPRINGY ENOUGH SAND IT THINNER UNTIL IT IS. THE BASE & UPRIGHT MAY BE MADE AS SHOWN ITS MUY PURPOSE IS TO GAVE HEIGHT TO THE DIVING BOARD. SET A DISH FILLED WITH WATER ON THE EASE & AWAY YOU GO

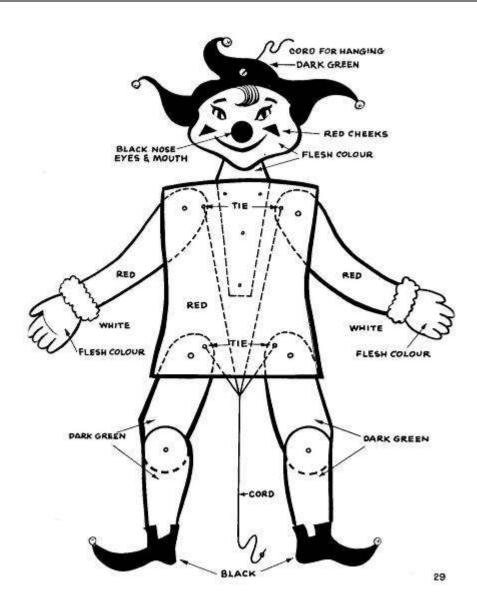


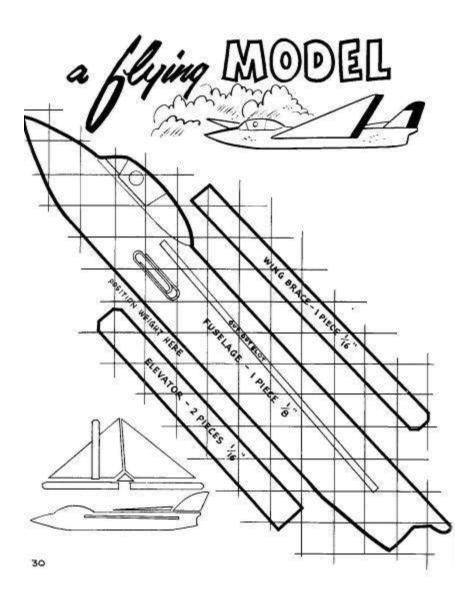
THE FREE SWINGING ARMS ARE MADE FROM TINPLATE OR LIGHT STEEL AS THEY MUST HAVE ENOUGH WEIGHT TO CONTROL THE DIRECTION OF FIGURE



CLOSE TO THE END OF DIVING BOARD FASTEN A SHORT PIECE OF POWEL WITH WATERPROOF CEMENT. THIS HTS LOOSELY IN HOLE DRILLED IN THE PLET OF THE DIVER.







WHAT WITH ALL THE NEW FANGLED PLASTIC MODELS NOBODY SEEMS TO BOTHER WITH A HOMEMADE BALSA BLIDER ANYMORE, BUT HERE IS ONE YOU CAN HAVE HOURS OF FUN WITH,

YOU MAY HAVE TO USE DIFFERENT WEIGHTS SOCH AS HAR PINS, POPER CLIPS ETT. TO GET PROPER BALANCE.SCOTCH TAPE THE WEIGHT UNTIL YOU GET RIGHT ONE, THEN GLUE TO BODY IN POSITION SHOWN



