

Apprentice Adventures!

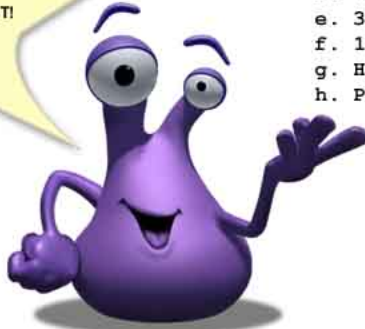
Print-n-Build™

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Homebuilt Windlass Crane

Safety First!

Make sure that you have your parent's approval with the tools and materials that will be used. Remember, SAFETY FIRST! Then have fun.



MATERIALS & TOOLS NEEDED

- a. 1 Empty soup Can
- b. 1 Wire coat hanger
- c. 1 Paper clip
- d. 8 Rubberbands
- e. 3-4 feet of string
- f. 1 Nail
- g. Hammer
- h. Pliers



Step 1.

CUTTING WIRE HANGER FOR CRANK AND BOOM.

For this step you will need a pair of pliers. You may want a parent to help you with this. Cut the wire for the boom first. Determine how much wire you'll need for the crank. Make sure you have enough. You can always trim the extra.

Step 2.

PUNCHING HOLES IN THE SOUP CAN.

For this step you will need the hammer and nail. You may want an adult to help you with this.

Take the can and support it so that you will be able to hammer the nail through the side of the can approximately a quarter of an inch from the top rim. Two holes will be required for the crank. Carefully, pierce the can on each side, one hole at a time.

Step 3.

Using the pliers, take the wire and bend it to make a crank as shown in the picture

Step 4.

After feeding crank through the holes, take pliers and bend the tip of the crank shaft so that it will not slip out of the holes. It should look something like this.

Step 5.

Using the pliers, take the wire for the boom and bend it in a shape similar to the picture shown. Secure it to the can using rubberbands. The boom should be fairly sturdy.

Step 6.

Tightly tie the string to the crank shaft. Wind the string by rotating the crank. On the loose end of the string, tie the paper clip on using a few granny knots.

Boom

The boom is the arm of a crane that extends the cable and lifting hook from the crane.