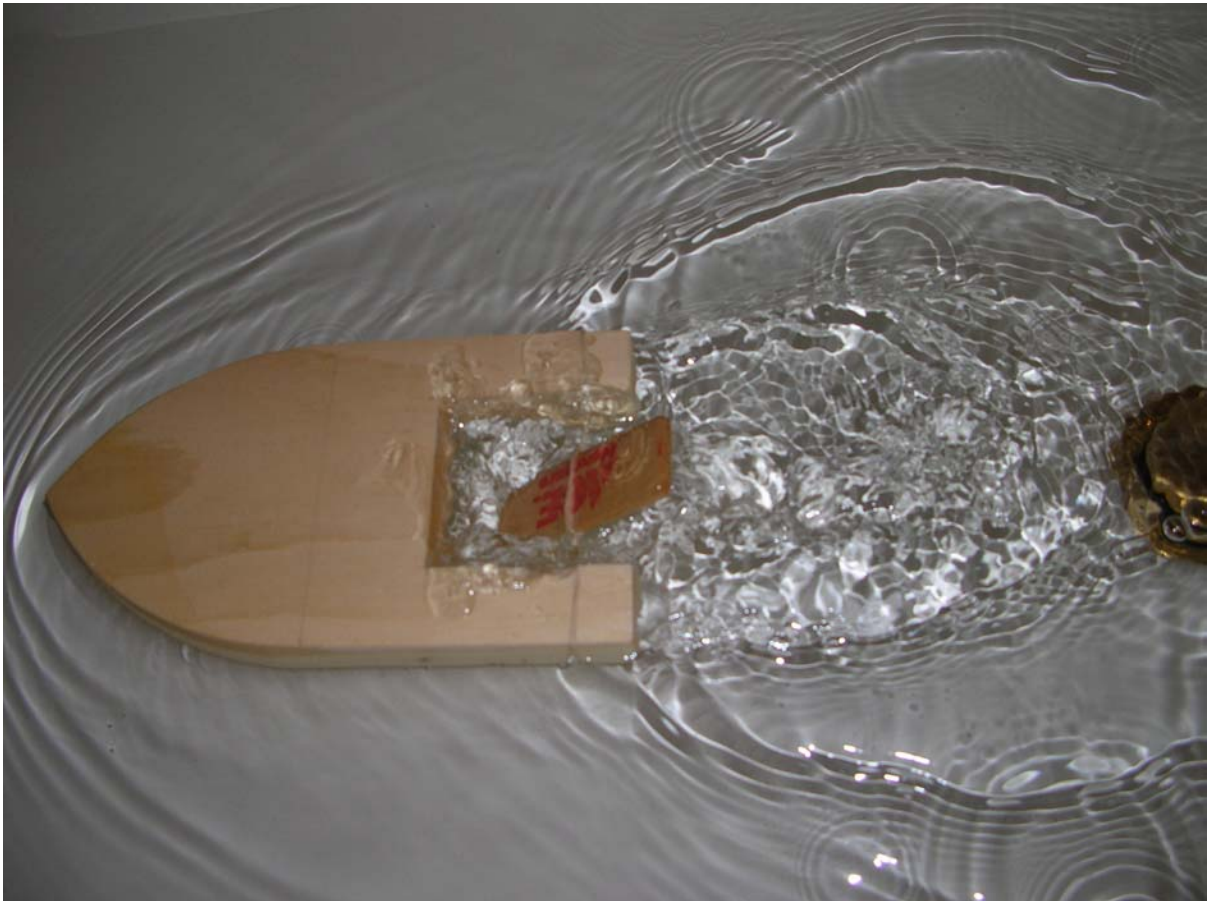


# Rubber Band Powered Boat



# Rubber Band Powered Boat

## Lessons:

- *Applies to Wolf Elective 5 - Spare Time Fun*
- Practice measuring, sawing and using a coping saw
- Easy: appropriate for Wolf, Bear, or Webelos

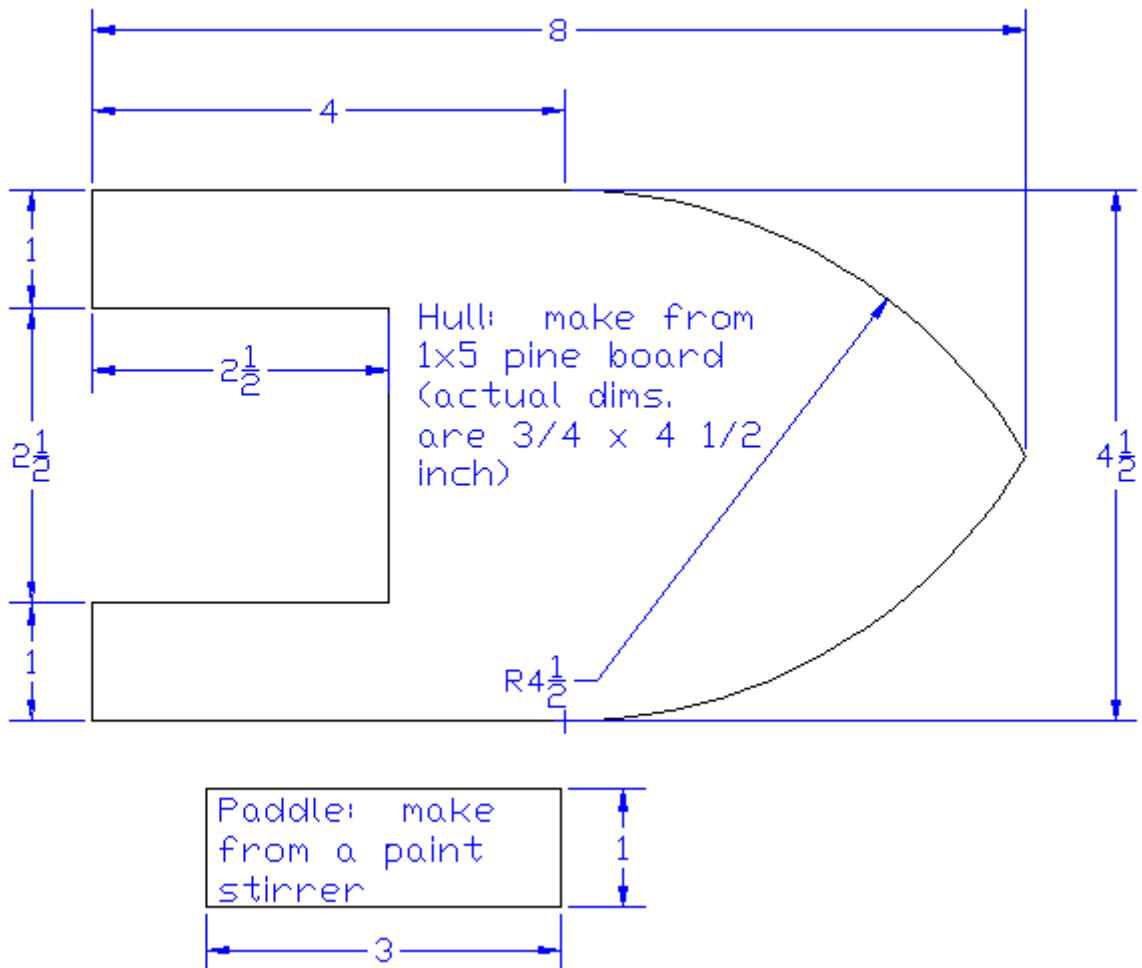
## Tools:

- Saw (Japanese style pullsaw recommended)
- Coping saw
- Ruler
- A square (triangular “rafter square” is recommended)
- Compass
- Clamps to secure the workpiece to the work surface, or a “bird’s mouth” to support the work while using the coping saw
- Sandpaper and/or rasp

## Materials:

- 8 inch long piece of 1 x 5 inch pine (actual dimensions are  $\frac{3}{4}$  x  $4\frac{1}{2}$  inch)
- Paint stirrer
- Rubber band

# Rubber Band Powered Boat



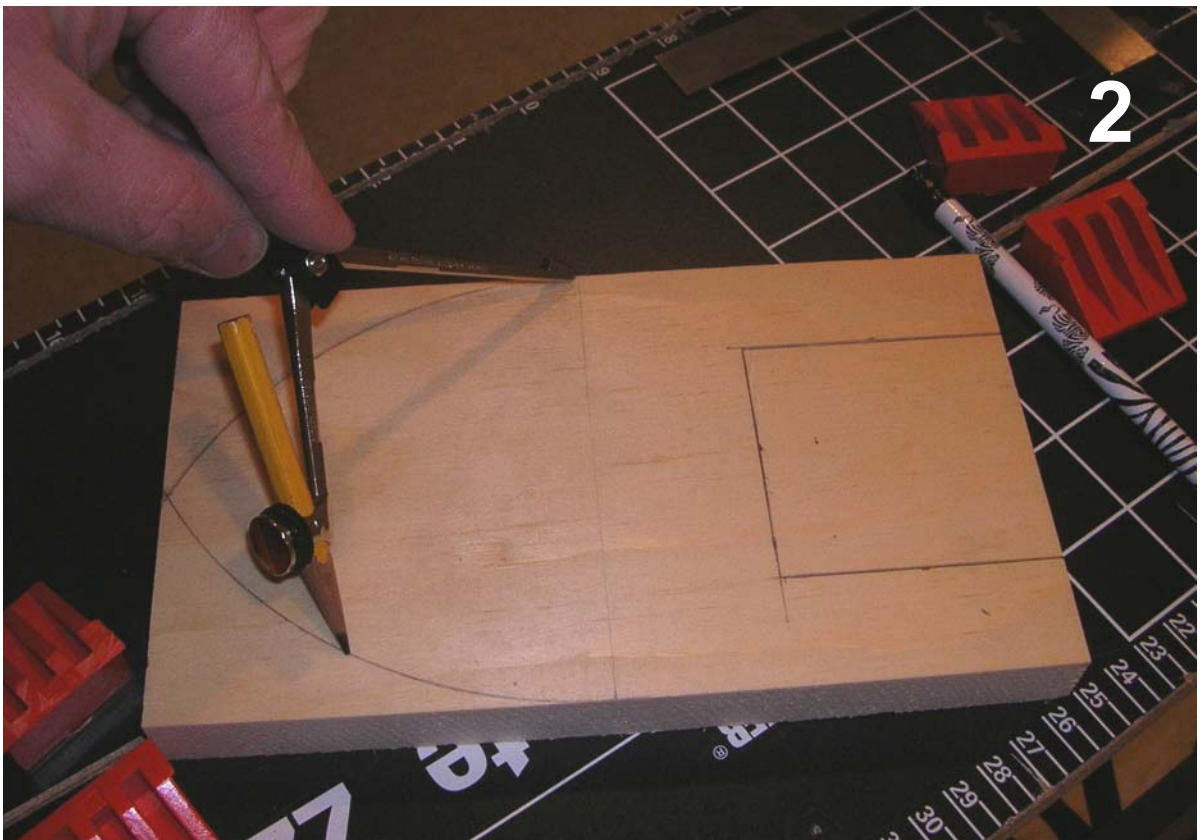
## Procedure:

1. Draw the lines at the rear, for the cutout for the paddle.
  - Measure with the ruler, then use the rafter square to draw the line across the board.

# Rubber Band Powered Boat

## Procedure:

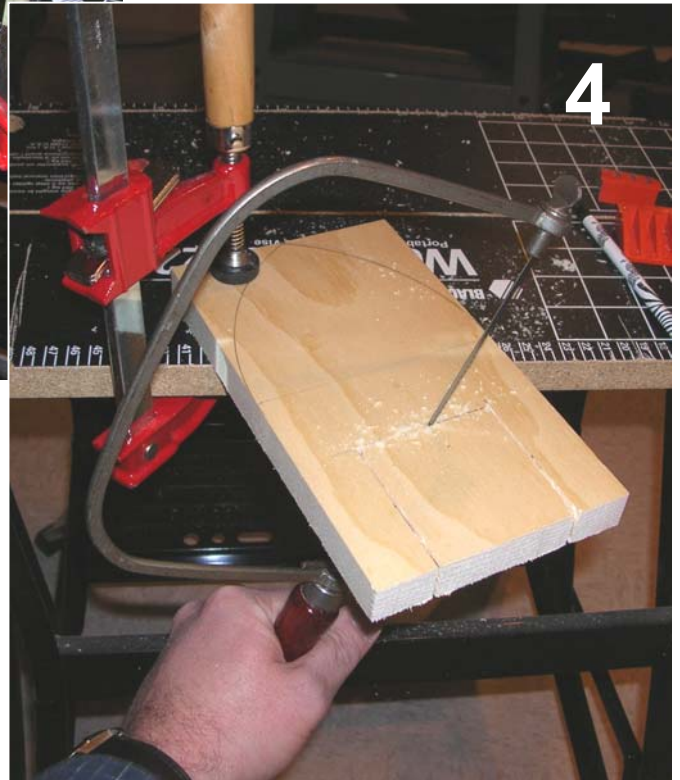
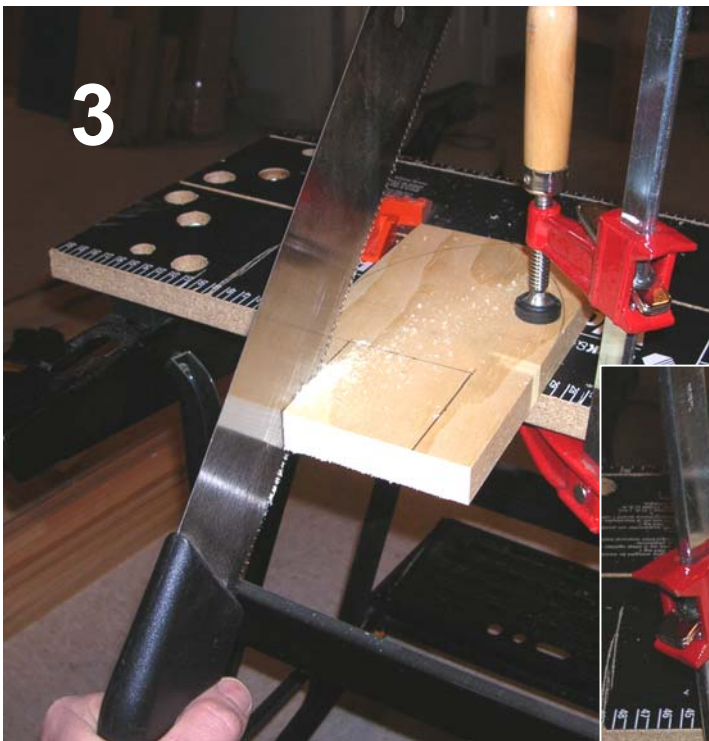
2. Draw the curves for the front of the boat
  - set a compass for a  $4\frac{1}{2}$  inch radius
  - place the point of the compass at the edge of the board, 4 inches from the rear of the boat, & draw an arc
  - place the compass point at the at the other edge of the board, 4 inches from the rear of the boat, and draw another arc



# Rubber Band Powered Boat

## Procedure:

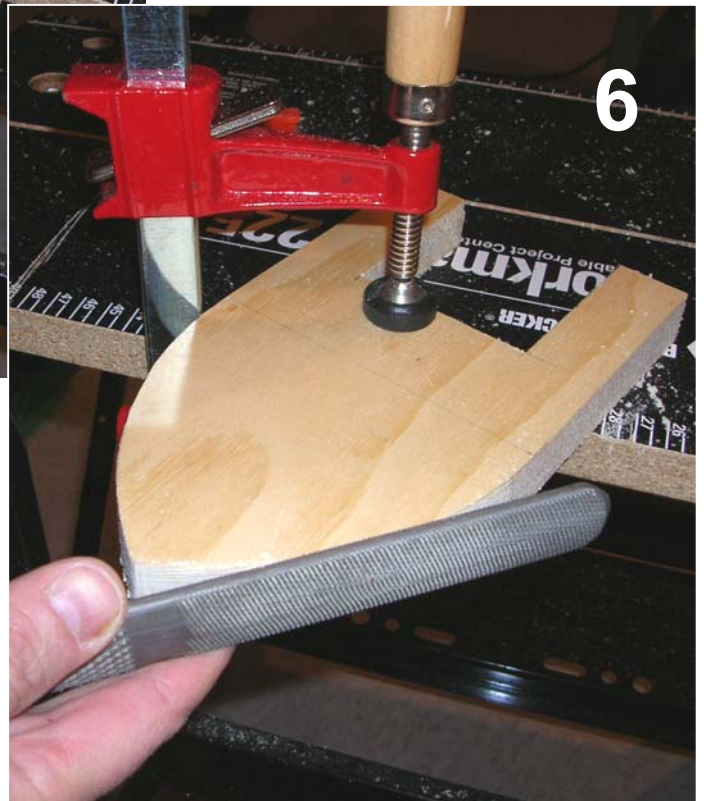
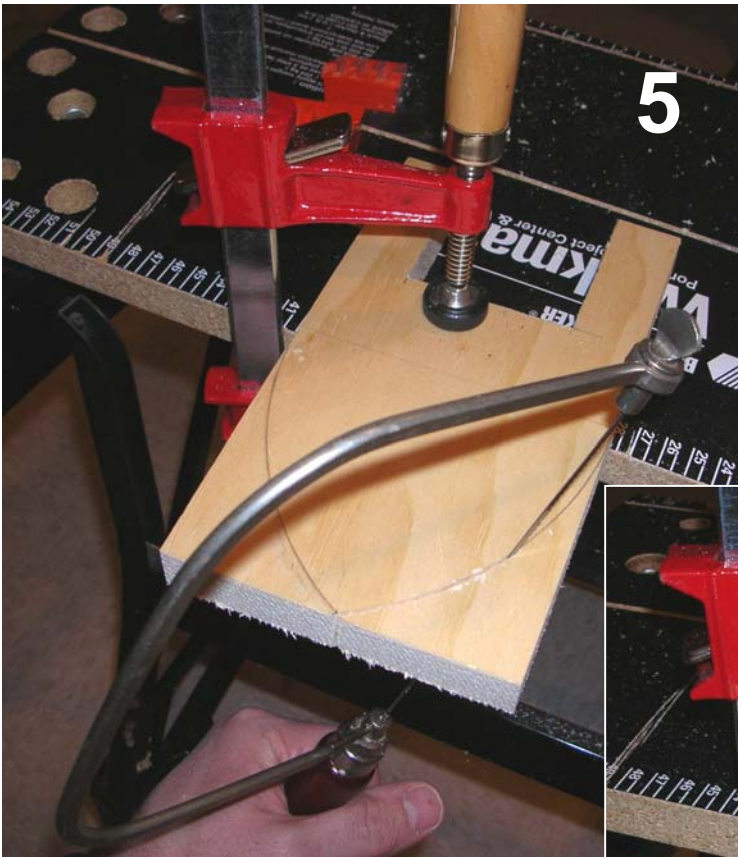
3. Use a saw to cut the sides of the opening for the paddle.
4. Use a coping saw to cut the front edge of the paddle opening



# Rubber Band Powered Boat

## Procedure:

5. Use a coping saw to cut the curved front edges of the boat
6. Use a rasp or sandpaper to smooth the cuts



# Rubber Band Powered Boat

## Procedure:

7. Cut the paddle from a paint stirrer (3 inch long)
8. Stretch a rubber band across the back of the boat, and put the paddle through it.

