



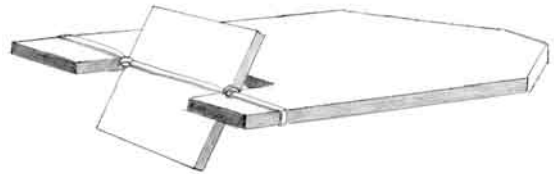
# The Treehouse

## Power Paddleboat Craft

You've powered your own canoe during your quiet water adventures. Create a mini paddle boat that uses its own paddle power!

### You will need:

- Pencil
- Ruler
- 3" x 5" thin balsa wood
- Rubber band (approxim
- Scissors or craft knife (1
- Craft paint (optional)



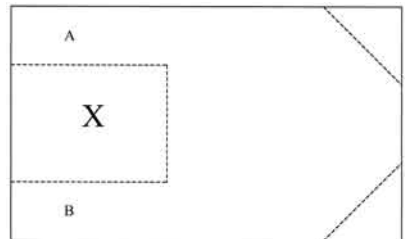
Use this pattern to help create your paddle boat

1. With an adult's help, use scissors or a craft knife to cut the balsa wood or heavy cardboard. The dashed lines on the pattern indicate where to cut.

2. Save the piece that is marked with an X on the pattern. This will become your paddle. Cut this piece so that it is 2" long and 1" wide.

3. Tie two knots in your rubber band so that it is divided into three sections.

4. Place one end of the knotted rubber band over the bar marked A on the pattern and other end of the rubber band over the bar marked B.



5. The rubber band loop that stretches across the opening will be used to secure the paddle. Slide the paddle between the rubber bands.

6. Optional: Use craft paint to add a design or pattern to your paddle boat. Allow the paint to dry before placing your boat in water.

To power your paddle boat, rotate the paddle, allowing the rubber band to twist tightly. Hold the paddle and rubber band in place while putting the boat in the water. When you let go, the rubber band will unwind, causing the paddle to rotate, powering your boat!

**Paddle Boat Experiments:**

What happens if you twist the paddle and rubber band in the opposite direction?  
Do paddles that are different shapes or sizes make the boat move differently?