

# Trebuchet Kit Instructions

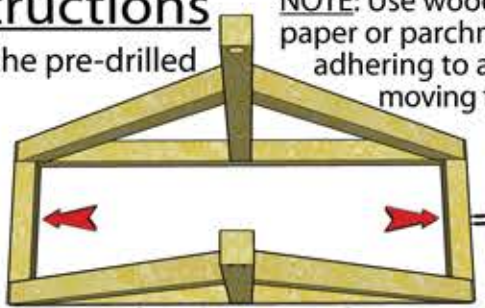
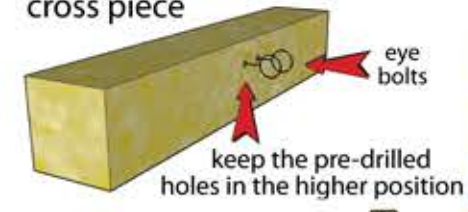
**NOTE:** Use wood glue (provided) to connect all wooden parts. We suggest using wax paper or parchment underneath your work area to prevent the glued pieces from adhering to any surface while they dry. Allow 1 hour for glued sections to dry before moving them. Build other parts of the trebuchet while waiting for sections to dry.

7) Assemble the trigger by tying the string onto the loop of a cotter pin to make the trigger pin.

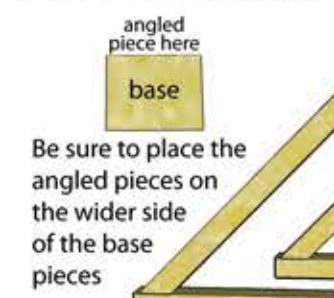
9) Insert the long axle through the A-frame, sleeves, and throwing arm. **IMPORTANT:** Glue the axle to the A-frames, but do not glue the axle to the throwing arm or to the sleeves.

10) Insert the short axle as shown here **IMPORTANT:** Glue the axle to the box arms, but do not glue the axle to the throwing arm.

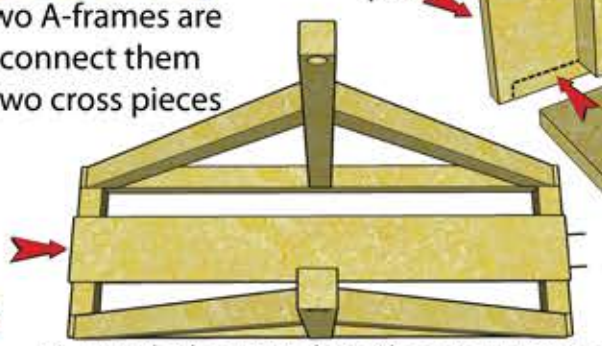
1) Screw in two eye bolts into the pre-drilled cross piece



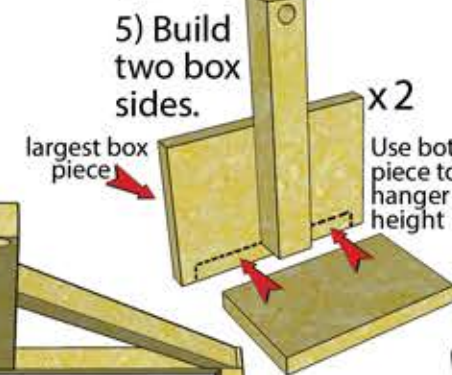
2) Build two A-frames



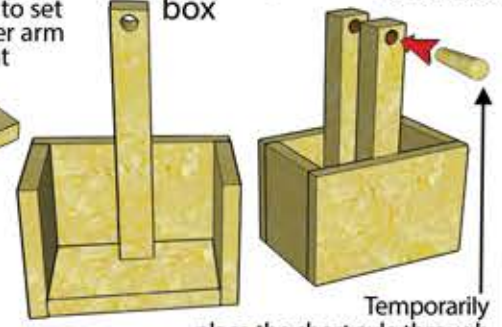
3) After the two A-frames are done drying, connect them using the two cross pieces



4) Attach the trough to the cross pieces

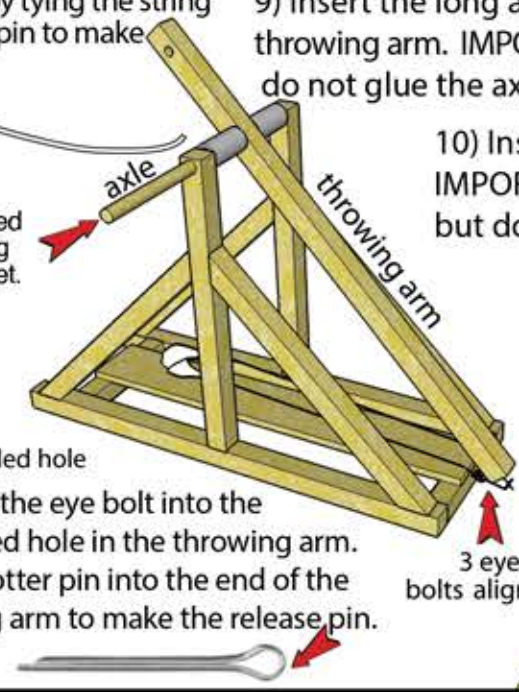


6) Build the counterweight box

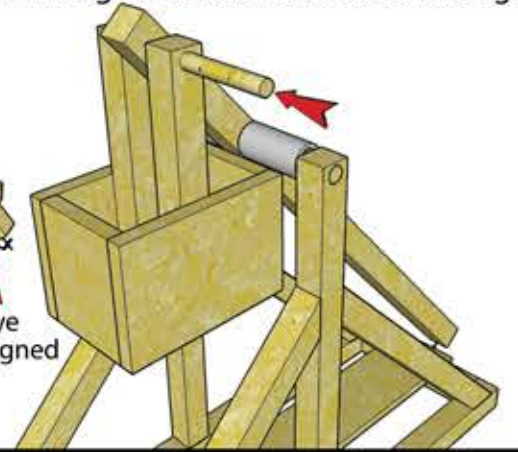


Be sure the release pin is aligned as shown, with the hole opening toward the sides of the trebuchet.

8) Screw the eye bolt into the pre-drilled hole in the throwing arm. Push a cotter pin into the end of the throwing arm to make the release pin.



3 eye bolts aligned



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**CAUTION:** The pin on the end of the throwing arm is sharp. Be careful to avoid this area whenever tilting the throwing arm or launching the trebuchet. Always step to the side of the trebuchet before firing it. Use this trebuchet at your own risk.

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## HOW TO LAUNCH!

- 1) Fill the counterweight box with weight (coins, sand, bolts, etc.)
- 2) Place the hole at the end of the loose pouch strap over the pin on the end of the arm. You can use pliers to bend the pin forward or backward to change the trajectory.
- 3) Load the projectile into the pouch. Hold the ball in place against the arm with one hand as you continue with Step 4.
- 4) Tilt the arm down. Place the eye bolt on the arm between the two eye bolts on the base. Insert the trigger pin through all three eye bolts to secure the arm in the downward position.
- 5) Place the pouch and projectile object onto the trough. Ensure that the pouch straps are not twisted.
- 6) Move to the side of the trebuchet, pull the trigger rope quickly and watch it fly! See side panel for CAUTION.

## build-it-yourself TREBUCHET KIT

