

## INSTRUCTIONS FOR MAKING YOUR OWN PAPER WATERWHEEL:

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1. Gather the needed materials:
  - a. 2 Paper Plates (with pre-cut center holes)
  - b. Crayons (for decorating the plates)
  - c. 4 Egg Carton Cups
  - d. 1 Pencil
  - e. 1 Stapler (you may need to share this item with others)
  - f. 1 Waterwheel Handout (for reference)

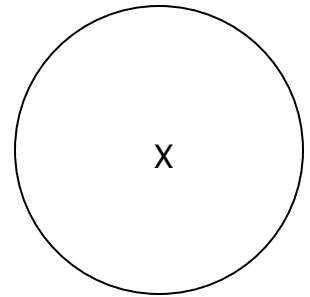


Plate  
with pre-cut hole in center

2. Using crayons, decorate the bottom sides of your 2 plates.
  - a. Decorate the plates any way you like, but they could be decorated to resemble the sides of a waterwheel.
  - b. The waterwheel handout can be used to see what waterwheels look like.

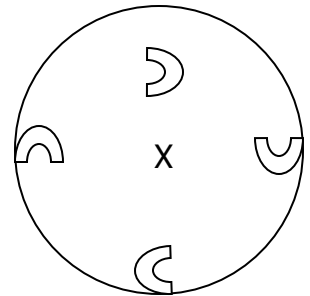
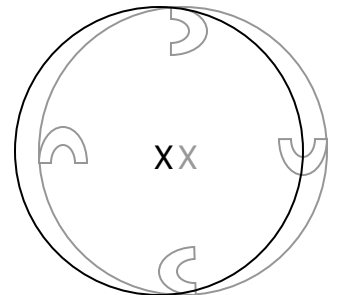


Plate  
with egg cups stapled to  
the sides

3. Using the stapler, staple the 4 egg carton cups to the edges of 1 of your 2 plates, as seen in the drawing shown on the right side of this page.

4. Next, use the stapler to attach the second plate to the same 4 cups that are attached to the other plate. This is the most difficult part – ask for assistance if needed). Try to keep the two plates lined up with each other as much as possible, so they'

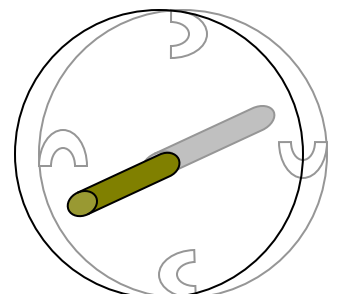


Plates  
with egg cups stapled to  
both sides

5. Then carefully stick the pencil through the pre-cut hole in the center of each plate (the pencil serves as the waterwheel's axle – the waterwheel can rotate around it).

6. Working with the volunteer or a parent, go to the sink to fill the cups of your waterwheel with water and to see the wheel turn. But watch out – you could get wet!

7. If you haven't already done so, go visit Yates Mill to see its 12-foot tall wooden waterwheel in action!



Plates  
with pencil stuck through  
the center

