

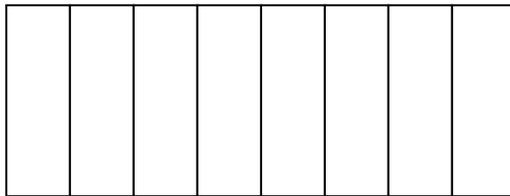
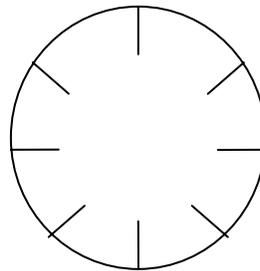
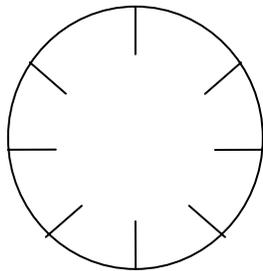
## Patterns for steam turbine and paddle wheel

Please use cardstock to print these or glue pattern onto a manila folder before cutting out.

Cut out each disk below and carefully cut the slits shown on the disks.

Take a sharp pencil or compass point and make a small hole in the center of each disk. Do not make the hole very large as you want the wheel to fit snugly on the skewer.

Place one of the "paddles" in each slot of the wheels. It will be easier if you place a paddle so that it is about 1/6 of the way from the edge of the paddle and slide it into the slot on one wheel. Then do the same thing at the other end of the "paddle" with the second wheel. By adding the paddles to both wheels at once, you will save problems getting the second half of the paddle wheel built.



Paddles

When this portion of the paddle wheel is done set it aside for later use.

Cut the pattern below for the steam turbine. After cutting the slots in the wheel, carefully bend down the corner/side marked on the pattern to form a type of pinwheel. You will need to carefully insert the bamboo skewer through the center of this wheel so that the wheel is about 3 inches from the top (non pointed end of the skewer, and then tape or glue the wheel to the skewer to form a solid bond between the two pieces. When this is dry, place the skewer through the center of the bottom of the cup provided. Be sure that the wheel inside the cup is not touching the sides of the cup.

Now place the paddle wheel on the skewer that is extending from the bottom of the cup.

