

# TURBINE (WATER WHEEL) ASSEMBLY INSTRUCTIONS

- Materials:**
- 1 Green Styrofoam cylinder (cut with center hole pre-drilled)
  - 8 Plastic spoons (pre-cut, ready for installation)
  - 1 Template to mark Styrofoam cylinder for spoon insertion
  - 1 Marking pen
  - 1 Glue gun and glue stick
  - 1 Threaded rod, 3/8" plastic



**Green Styrofoam cylinder (for base of turbine)**

1. Place green styrofoam cylinder on template and lightly mark each of the 8 positions where spoons will be installed. **CAUTION: Handle the styrofoam cylinder with great care as it is very fragile.**
2. **Insert the threaded rod into the center hold of the styrofoam cylinder before inserting the spoons.** The shaft will provide support to the Styrofoam cylinder and will keep spoons from penetrating too far into the cylinder.
3. Push each of the 8 spoon (handles first) into the green styrofoam cylinder until they are near or touch the dowel. Position each one of the spoons carefully and do no twist, or try to reposition them.
4. Using the glue gun, carefully glue around each spoon, attaching the spoon firmly to the styrofoam cylinder. The **finished turbine** should look like the picture below.

