HOW TO MAKE A SECCHI DISK

MATERIALS:

- 20 cm diameter circle of acrylic disk 3/8” or 1/2” in thickness
  (aluminum or steel may be substituted, but wood is not recommended)
- 15 cm circle or square of 1/8” galvanized steel (used to weight the disk)
- hand drill
- eye bolt – 5/16” x 2”
- two flat 5/16” washers
- one locking 5/16” washer
- two 5/16” nuts
- flat black rust resistant spray paint
- flat white rust resistant spray paint
- masking tape
- nylon rope (cut long enough to be the depth of your lake deep spot.
  Avoid cotton rope because it stretches)

INSTRUCTIONS:

1. Divide the 20 cm acrylic disk into quadrants using masking tape. Spray paint alternating
   quadrants black and white, so that you have a disk that is similar to that pictured below.
   Let the paint dry. Apply a second coat of paint if necessary.

2. Drill a hole of 3/8’ through the center of the
   acrylic disk and the galvanized steel disk.

3. Assemble disks with eyebolt (5/16” in
   diameter). Use flat washers between disk and
   nut, and between steel plate and locking washer.
   Use 5/16” nuts at the top of the eyebolt and to
   bolt the steel plate on the underside of the
   acrylic disk.

4. Attach a brass chain or rope calibrated by 0.5
   meter increments to the secchi-disk to use in the
   lake.

(Note: If rope is used, avoid using cotton rope or clothesline since it stretches when it is
wet. Use non-stretching white plastic coated wire-core clothesline. Make sure to bend
and straighten the line before you buy it to make sure that it will lie straight. Calibrate
the rope at 0.5 meter increments using permanent pen, or by tying knots at each 0.5
meter interval.)