

## Turning a Night Light

### Supplies Needed

- 1 3/16" Forstner Drill Bit
- Blank
- 2" x 3" Waste Block
- Glue (Thick CA or Epoxy)
- Sandpaper/Finish
- Drill or Drill Press
- Eye and Ear Protection
- Double Face Tape

### Blank Preparation

1. Select a well seasoned blank of wood about 2" square by 3/8" thick. Make sure that both faces of the blank are parallel to each other.
2. Mark the center of the back face of the blank and drill a 1 3/16" hole 3/16" deep into the blank.
3. Sand and finish the back face of the blank.

### Making a Drive Chuck

1. Mount a 2" x 3" waste block on a faceplate or in a chuck.
2. Turn the front of the waste block down to a 2" diameter.
3. Turn a 1 3/16" dia. by 1/8" long tenon on the face of the waste block (see figure 1).
4. Using double-faced tape, tape the face around the 1 1/8" tenon (see figure 1).

Figure 1

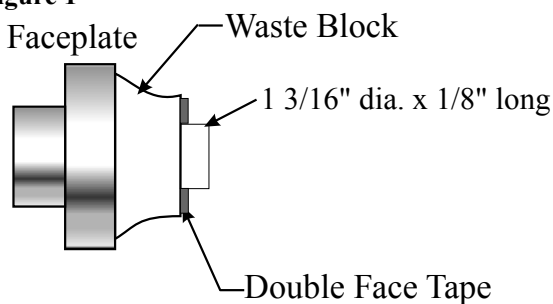


Figure 2

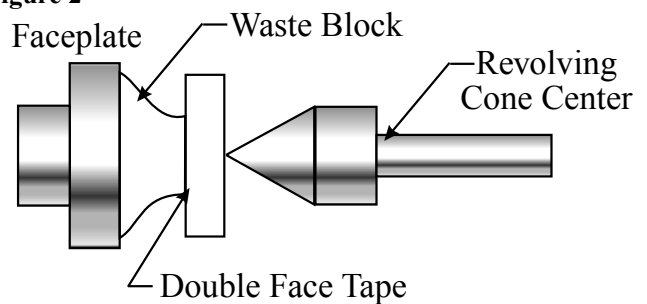


Figure 3

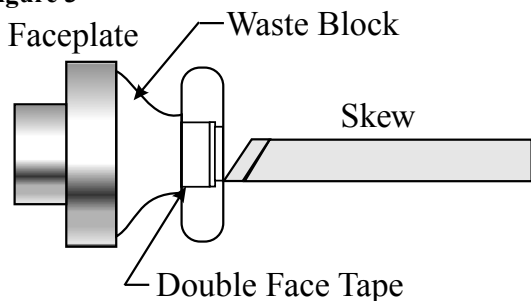
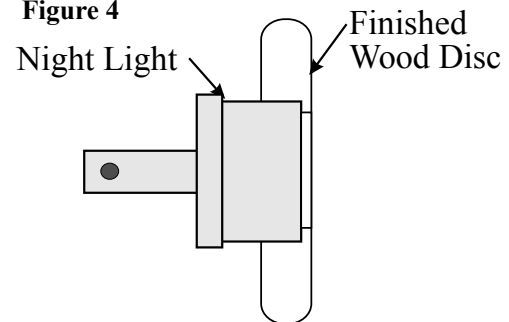


Figure 4



### Turning the Night Light

1. Press the drilled blank over the tenon and onto the double-faced tape.
2. Advance the revolving center against the blank (see figure 2). This pressure will strengthen the bond of the tape during the rough turning of the blank. Remove the revolving center after the rough turning is completed. The finished thickness of the blank should be about 1/4".
3. Using a skew laying flat on the tool rest, open up the hole on the face of the disc 1/4" smaller than the diameter of the light. This allows more light to shine through (see figure 3).
4. Sand and finish all of the remaining areas of the wood.
5. When removing the disc, wedge a wood chisel between the disc and waste block. Use slow, steady pressure until the tape begins to stretch and finally lets go.
6. Sand and finish the back of the disc.
7. Glue the night light into the recess in the back of the disc (see figure 4).