

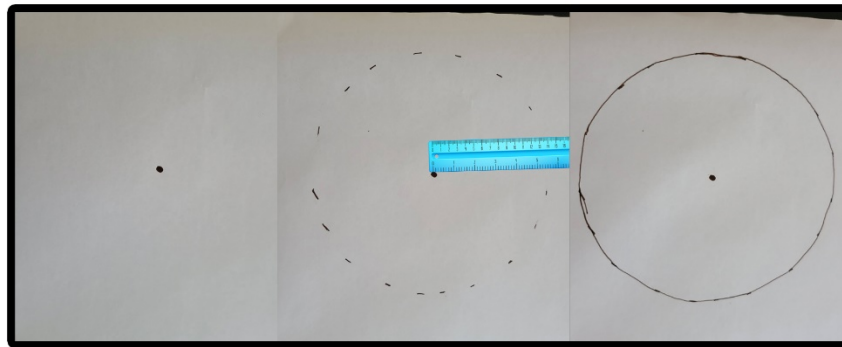
## Drawing and Constructing a Top Hat

**Instructions:** You will construct 3 pieces. The crown (top of hat), band (center), and brim. Follow the instructions to make each piece. (*Note: If you have access to a large poster board, pieces could be made into templates first*).



### 1) Drawing the Crown

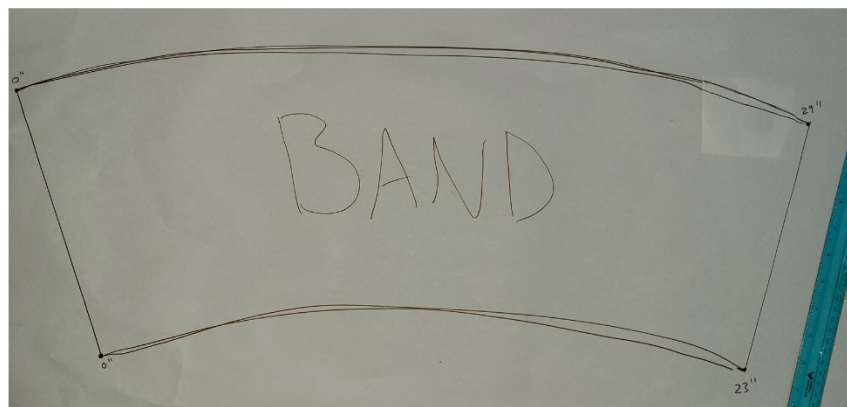
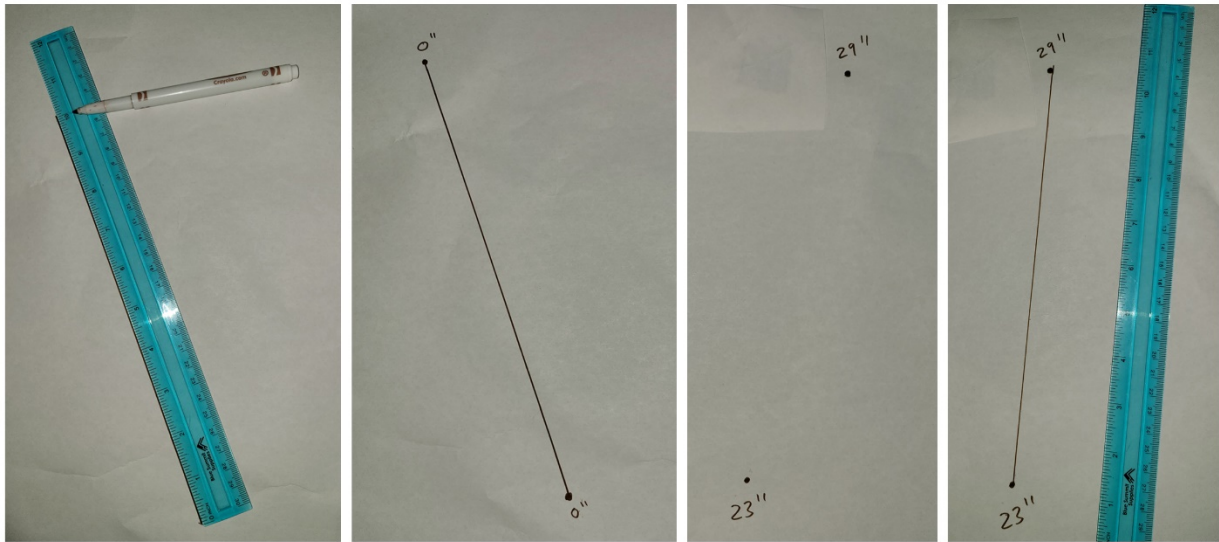
- Draw a circle with a 5 ½ inch radius.
  - **Step 1:** Place a dot on your paper.
  - **Step 2:** Using your ruler, measure a 5 ½ inch distance from the dot and make a mark. Continue making marks at this distance until you have made a circle shape.
  - **Step 3:** Connect the dots/marks with a line.



### 2) Drawing the Band

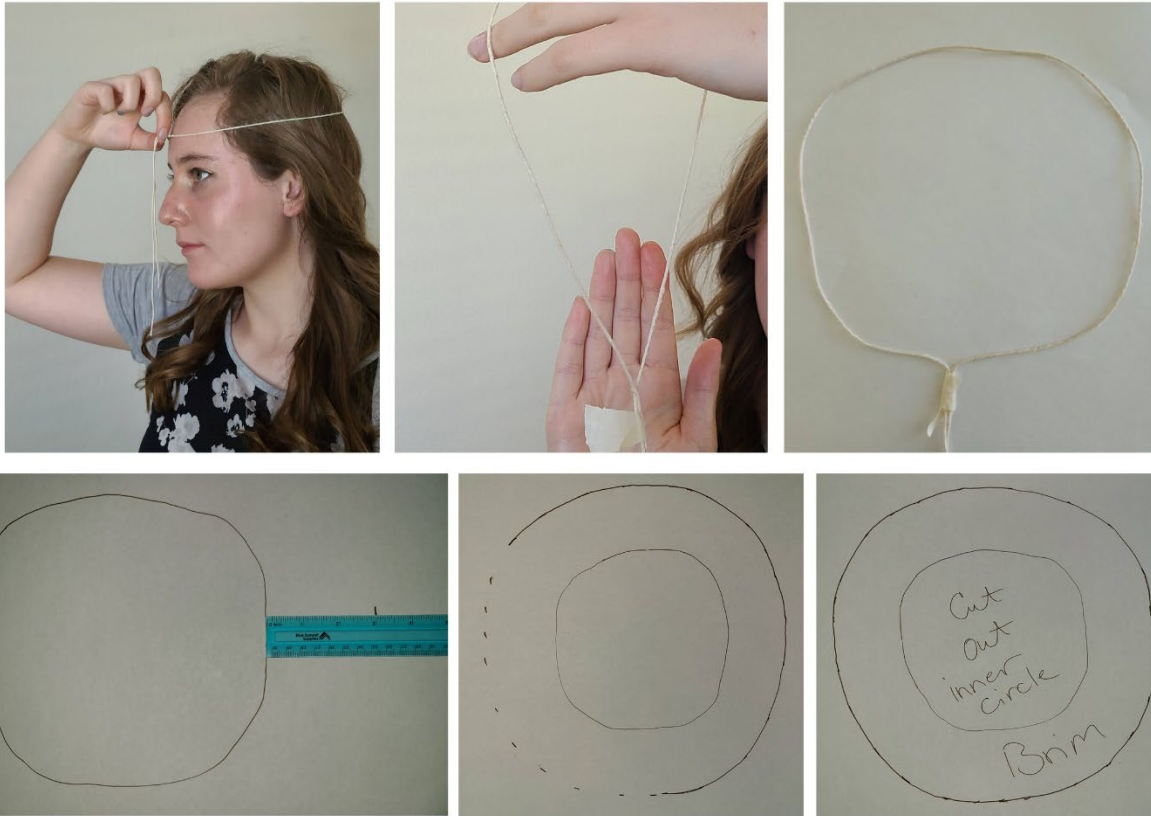
- **Note:** You can change the measurements to create a taller hat or a shorter hat.
- The band will have a longer length at the top and a shorter length at the bottom (see photos below).
  - **Step 1:** Draw a slanted vertical line with a width of 10-inches on the far right of your paper
  - **Step 2:** The top of the band will have a length of 27-inches. From the top of the line made in Step 1, measure a horizontal line with a length of 27". Measure the line but do NOT draw out the line. Just make a dot at 0" and a dot at 27".
  - **Step 3:** The bottom of the band will have a length 23-inches. From the bottom of the line made in Step 1, measure a horizontal line with a length of 23". Measure the line but do NOT draw out the line. Just make a dot at 0" and a dot at 23".
  - **Step 4:** Draw a slanted vertical line on the far left of your paper connecting the 27" mark with the 23" mark.
  - **Step 5:** Draw a curved line connecting the two dots made in Step 2.

- **Step 6:** Draw a curved lined connecting the two dots made in Step 3.



## Drawing the Brim

- Draw a brim that attaches to the band.
  - **Step 1:** Take a string and measure the circumference of your head. Use tape to secure.
  - **Step 2:** Trace the circumference of your head using the string. This portion will be cut out when you put your hat together.
  - **Step 3:** From the circle traced in Step 2, measure a distance of approximately 3" and make a mark. Continue making marks at this distance until you have made a circle. Connect your marks with a line.

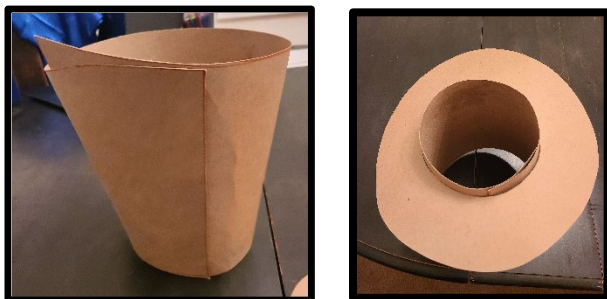


## Constructing Your Hat

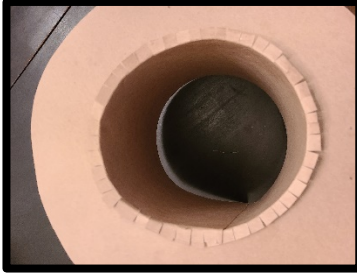
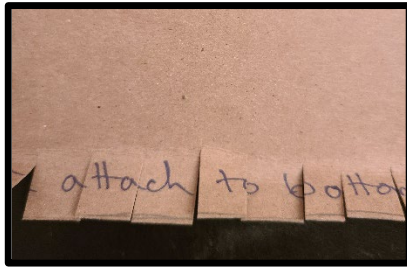
Once all of your pieces are drawn and cut out, it is time to put them together. You will need the following:

- Glue Gun and Glue Sticks
- 3 pieces cut out (crown, band, brim)

**Step 1:** Take the band and connect the two ends. Make sure the smaller end (bottom of band) fits into your brim. Trim excess chipboard at top.



**Step 2:** Cut tabs on the bottom of band. Bend outward and attach to brim. **NOTE:** Before gluing, make sure the brim fits loosely on your head. When you glue on the band, it will make your hat smaller. You can always widen the brim opening for your head and reinsert band before gluing to ensure a good fit.



**Step 3:** Cut tabs around the top of the band. Bend inward and attach the crown. Trim excess chipboard around crown if needed.

