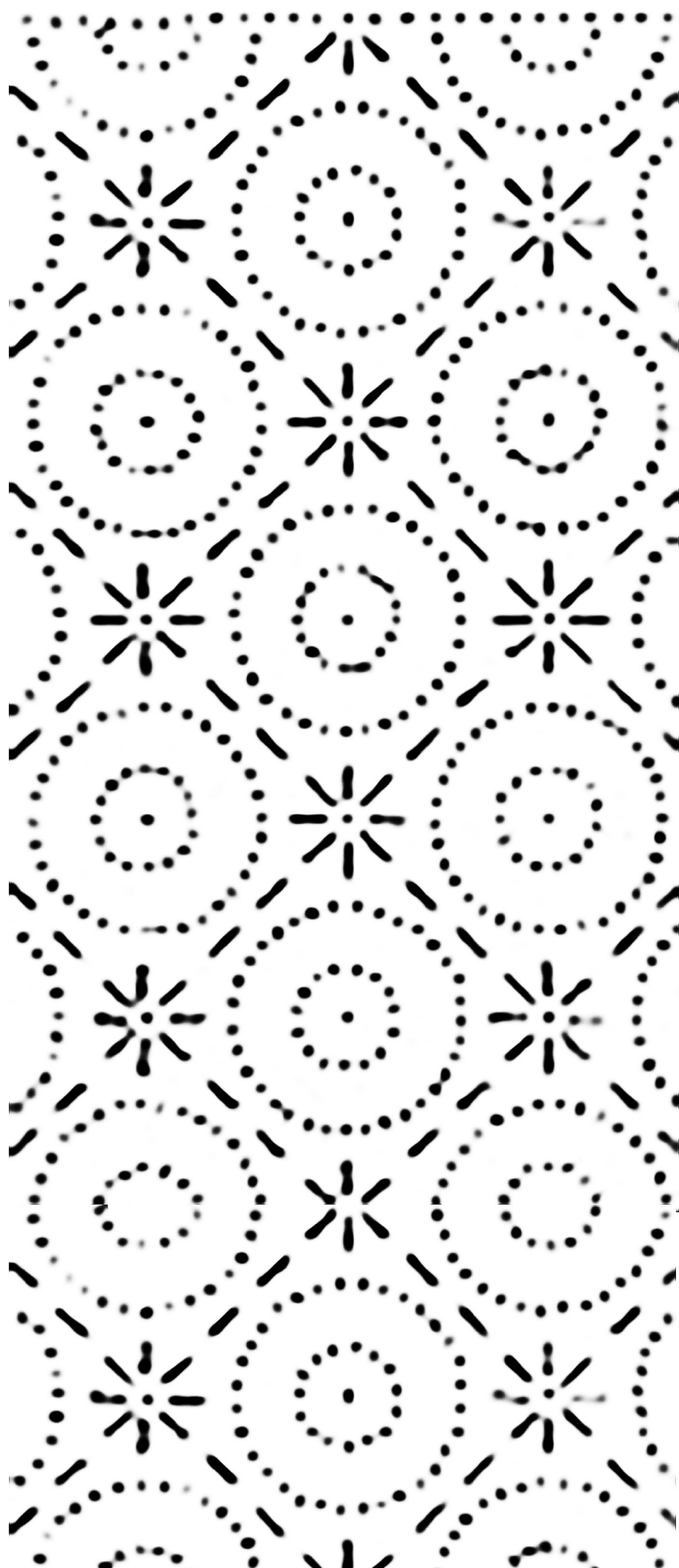
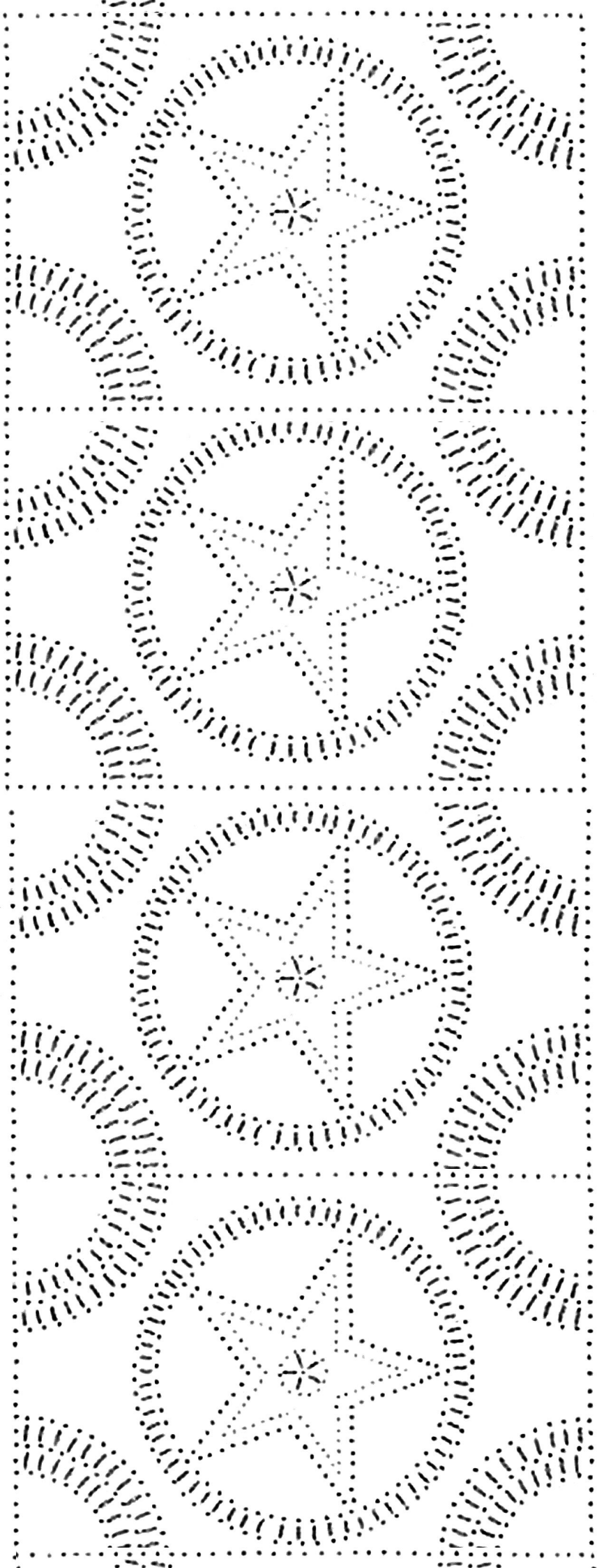
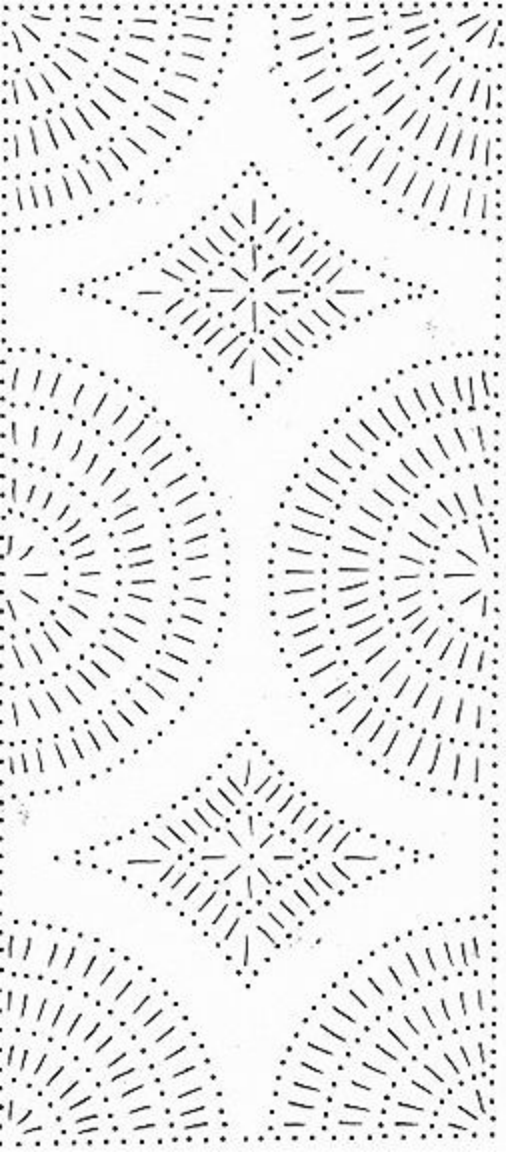
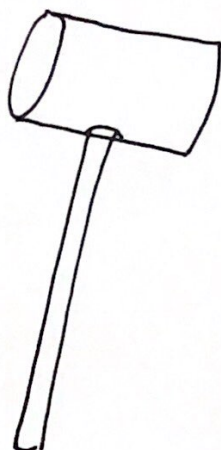








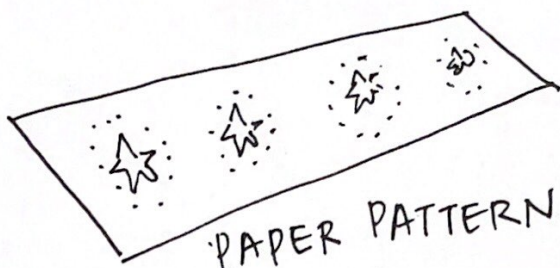
TOOLS
+
SUPPLIES



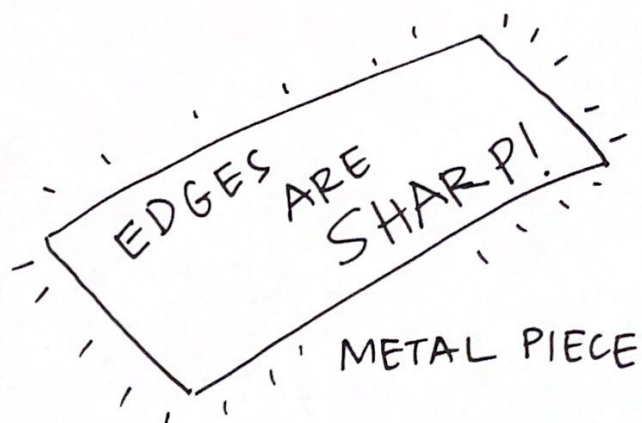
WOOD
HAMMER



METAL
CENTER
PUNCH

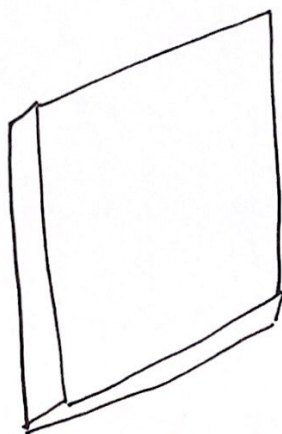


PAPER PATTERN



EDGES ARE
SHARP!

METAL PIECE



WOOD
BLOCK

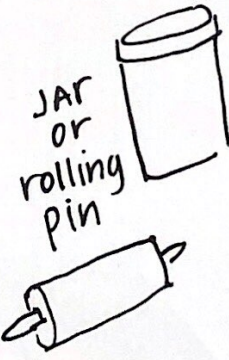
YOU WILL ALSO NEED:



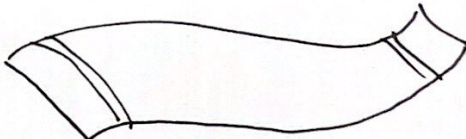
CLEAR
TAPE
OR
RUBBER
CEMENT



Small
battery
powered
light

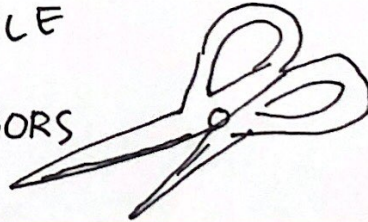


JAR
OR
rolling
pin



SMALL TOWEL TO PROTECT
TABLE

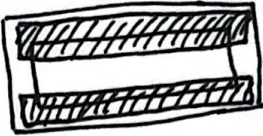
SCISSORS



① Prepare your workspace
towel, wood block, center punch + hammer

② Prepare your metal by taping pattern onto metal
METAL EDGES ARE SHARP!!

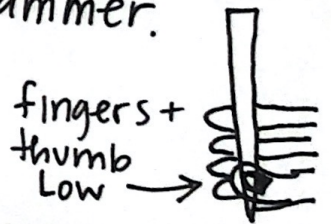
- Trim paper pattern if necessary. Trim to outside of line.
- Attach paper pattern to center of metal with tape or rubber cement. Tape must be CLEAR!

*  Make sure tape touches pattern AND metal like this

③ Place metal on wood block and prepare to hammer in the pattern holes. Where there is a dot = hole, where there is a line = drawn line from back. Do holes FIRST

④ Make sure wood block is under area to be hammered. Place center punch tip on dot, support center punch, get fingers clear + strike center punch top with wood hammer. You should have a hole.

⑤ Repeat making holes, take care to move pattern + metal as needed as hammering to support on wood block. Repeat until all holes are punched.



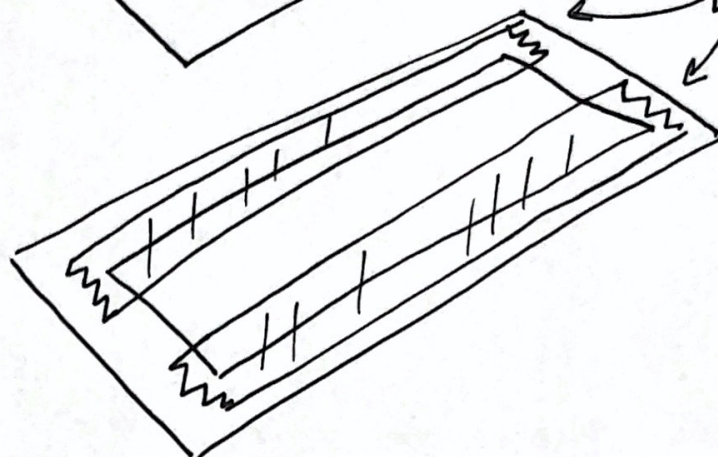
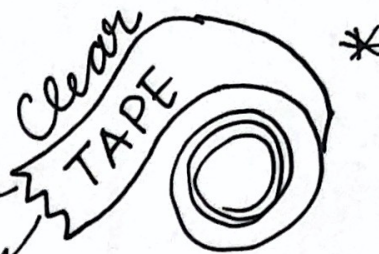
⑥ Now make lines! Where you see a line, draw a line with the tip of the center punch. Be careful not to pierce metal - just lines! Lines can be drawn from front over pattern or from the back. (take note from pattern on front for where to draw lines - or make up your own!)

PATTERN

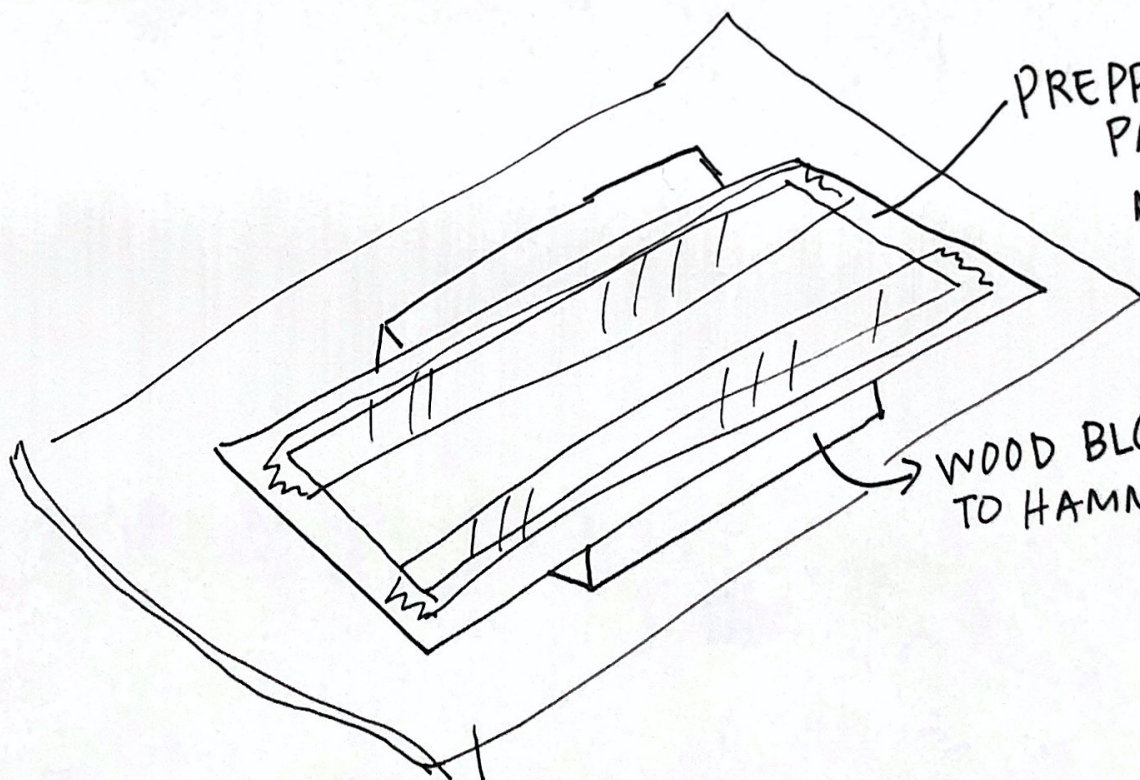


METAL

PREP PATTERN
ON METAL



* YOU CAN ALSO USE
RUBBER CEMENT



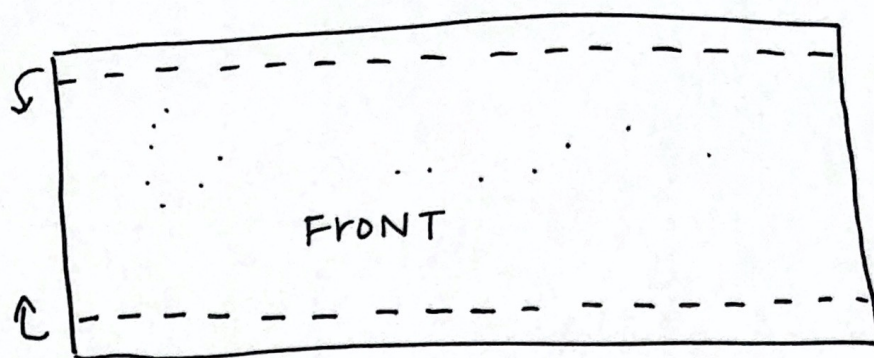
PREPPED
PATTERN
ON
METAL

WOOD BLOCK
TO HAMMER ON

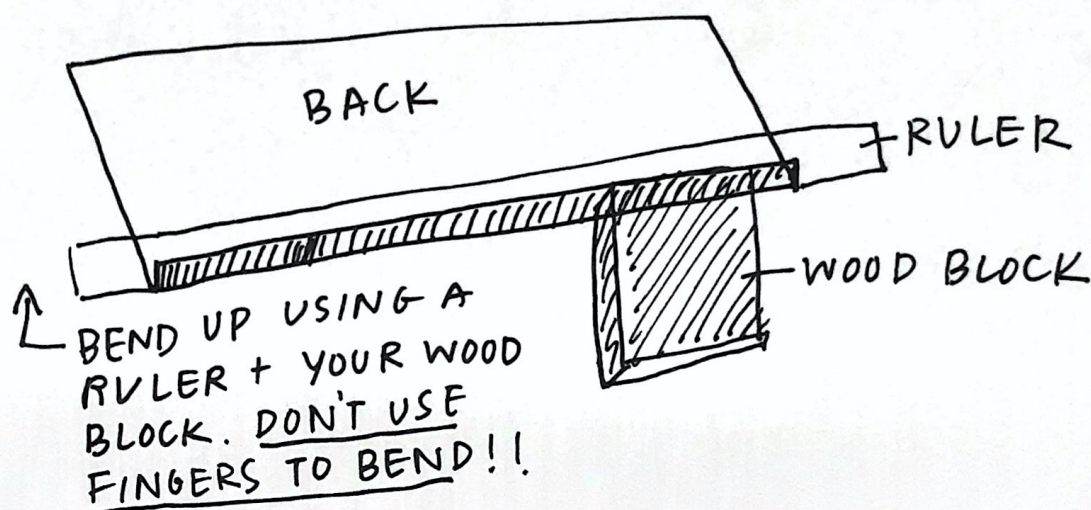
TOWEL TO
PROTECT TABLE

⑦

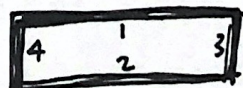
EDGES
+
FINISH



EDGES WILL BE FOLDED TOWARDS BACK



- place ruler on edge $\frac{1}{4}$ " - $\frac{1}{2}$ " from edge depending on design (edge of pattern - non punched area)
- pull edge so edge to be bent is off the table
- use wood block to bend edge up against ruler edge
- bend just beyond 90° then remove ruler
- use wood block to complete bend by pushing flat down
- don't push onto pattern just edges
- repeat on all 4 sides



8

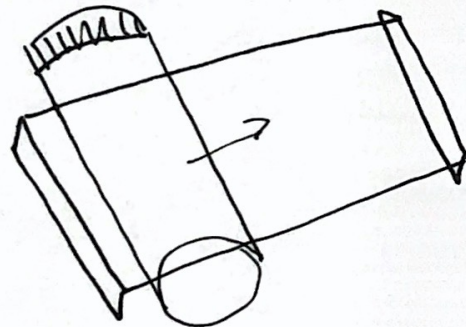
FOLD TOWARDS BACK

FOLD TOWARDS FRONT

FRONT

CUT
IN
CREASE

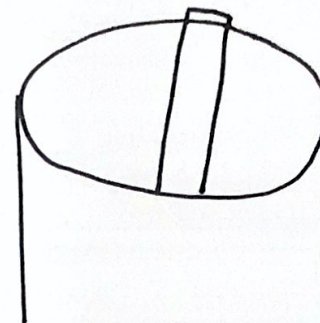
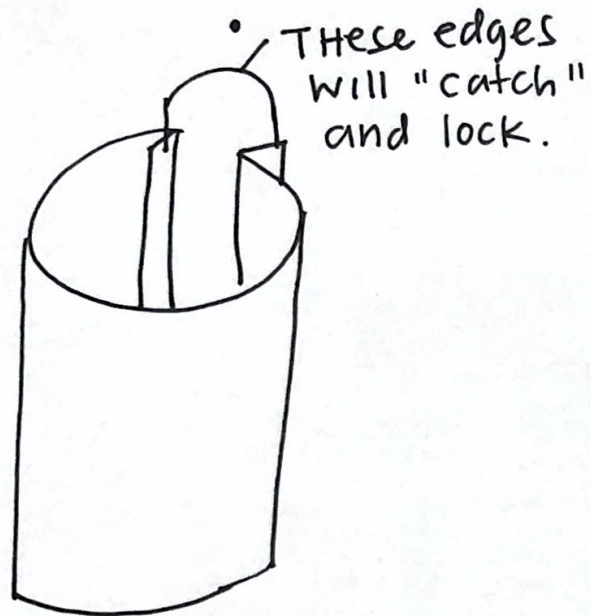
2 cuts
1 in crease
1 to left of crease



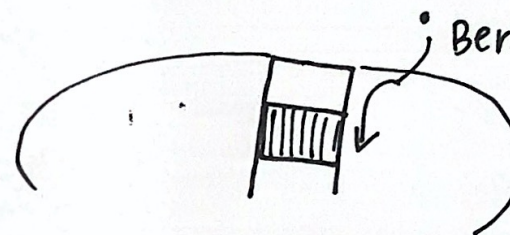
Use something round like a jar or rolling pin to form flat pattern into a "Tube" shape



9



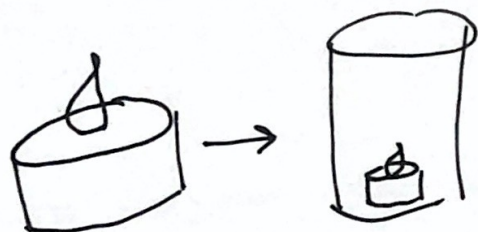
- Catch edges fold together: cuts you made become tabs



- Bend inner tabs (2 layers) down to lock. Outer layer remains up. Repeat on other side to complete

- smooth any kinks out of edges with fingers

10



place
light
inside!

