

# ALGI

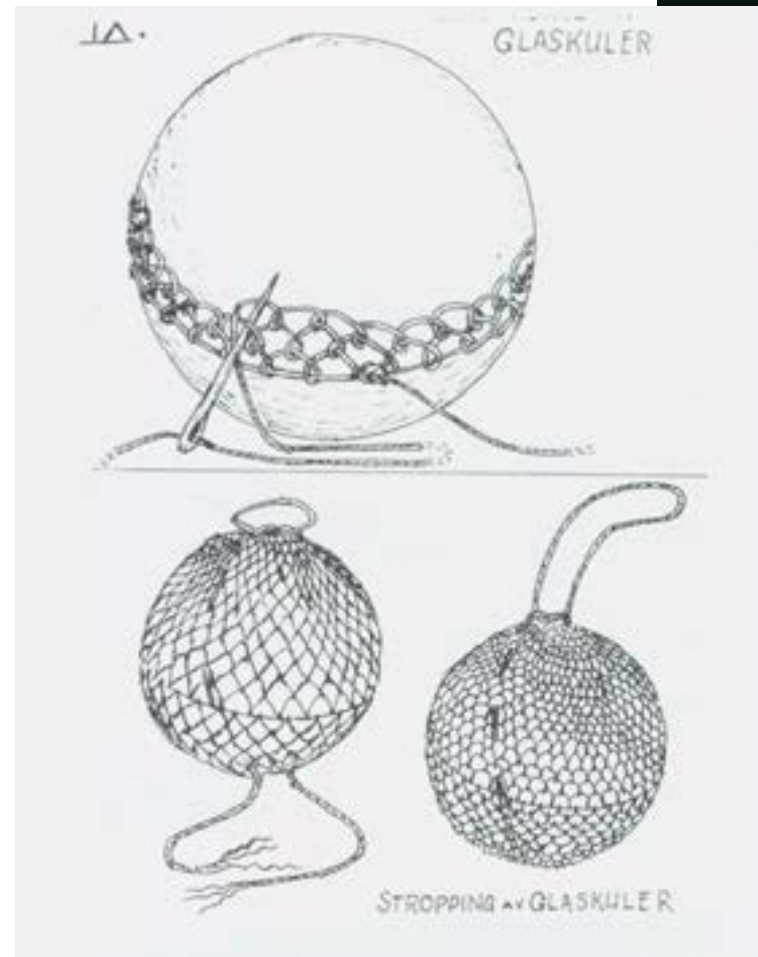
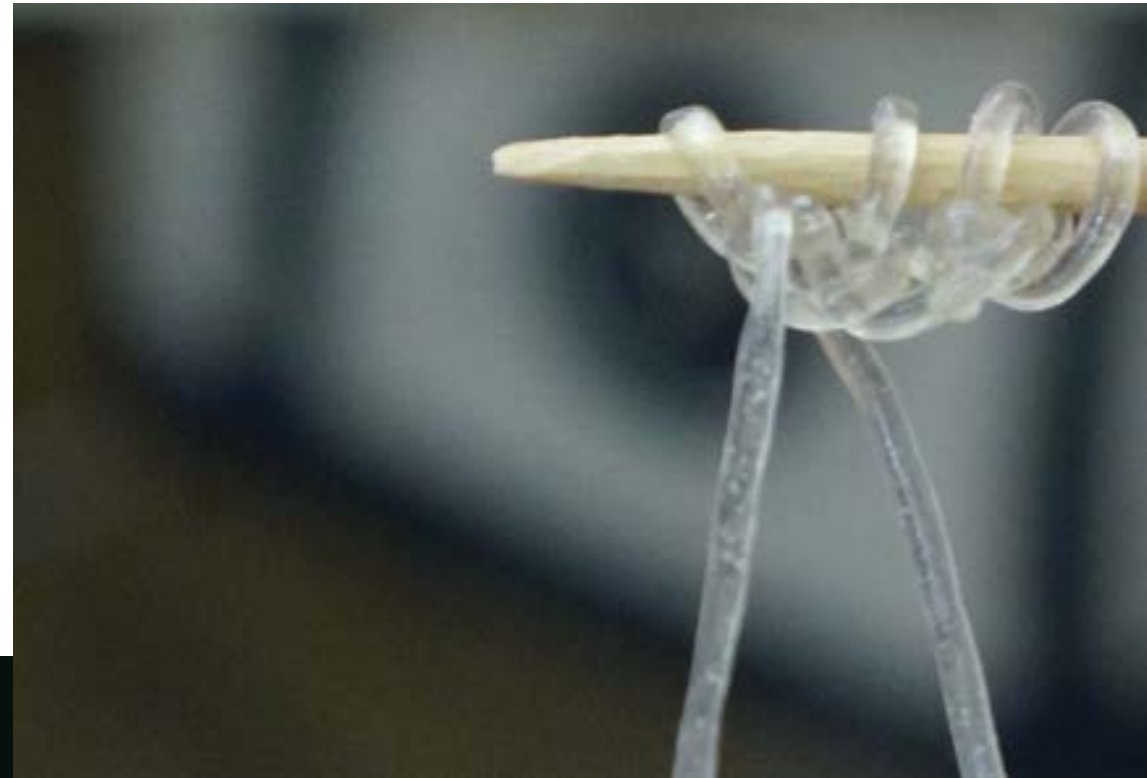
bio-yarn light sculpture

Only Natural Design Competition  
Ione Shakur





some initial inspiration...



## Recipe Test 2

03/03/24

(apr.) 1 tbsp. corn starch

4 tbsp. water

~~4 tbsp.~~

1 1/2 tbsp. glycerin

1 1/2 tbsp. vinegar

Notes:

- After 5 mins

- Very opaque. Medium syringe extrudes best.

Microneedle is too small.

Breaks very easily.

No stretch.

9 tests of the bio-yarn recipe were conducted in order to perfect the strength, length, and flexibility

## Final Recipe

04/05/24

Bioyarn

1 tbsp. sodium alginate

200 ml distilled water

- 20%-30% dye solution if desired

20 ml glycerine

5 ml sunflower oil

10% calcium chloride solution

- 300 ml distilled water

- 30 ml calcium chloride







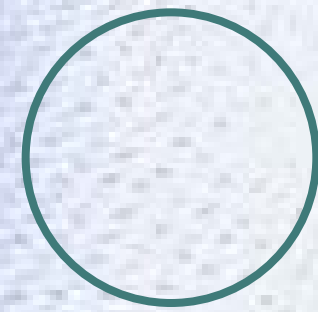
working with natural dyes &  
trying different drying methods

various stages of the  
prototyping process...





Glass Globe Shade  
+  
LED Lightbulb

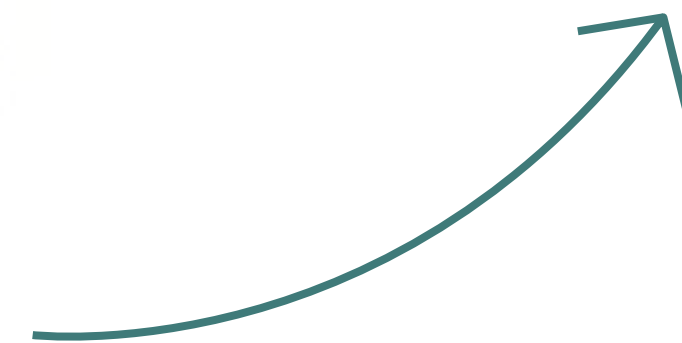


Detail View



Knitted lampshade made from bio-plastic yarn.

Ingredients:  
sodium alginate  
glycerin  
sunflower oil  
water  
vinegar



# MATERIALITY