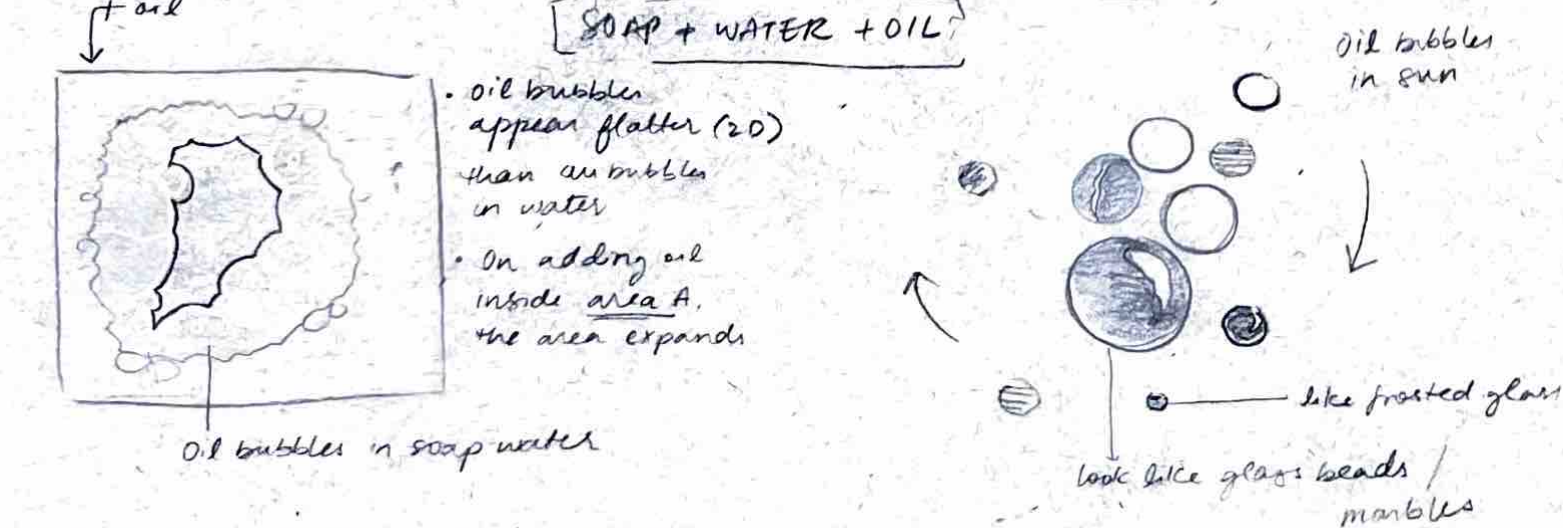
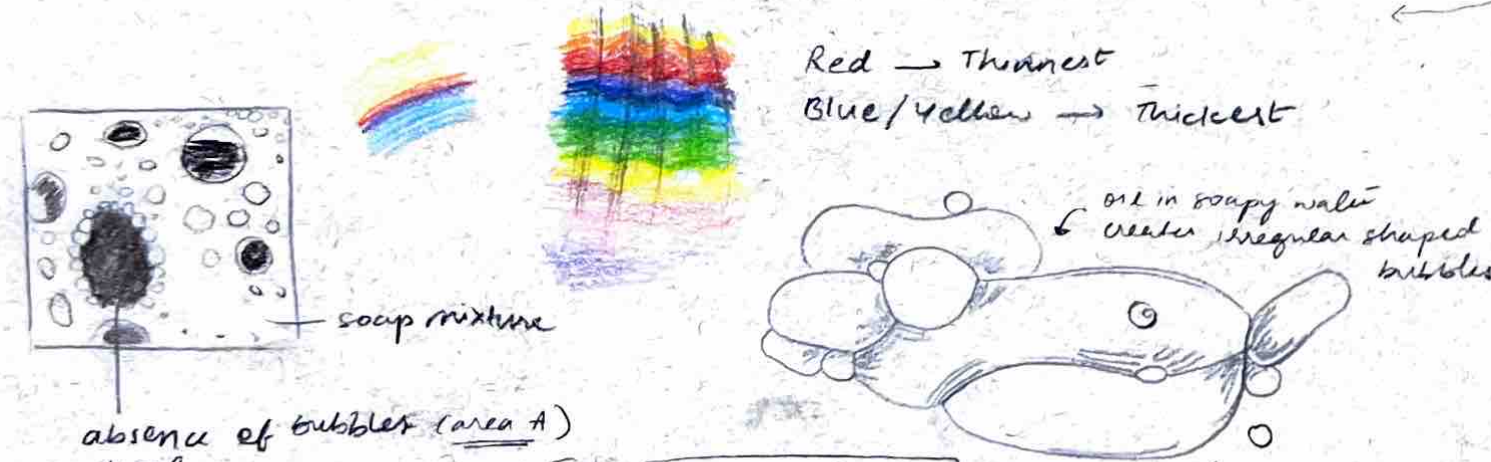
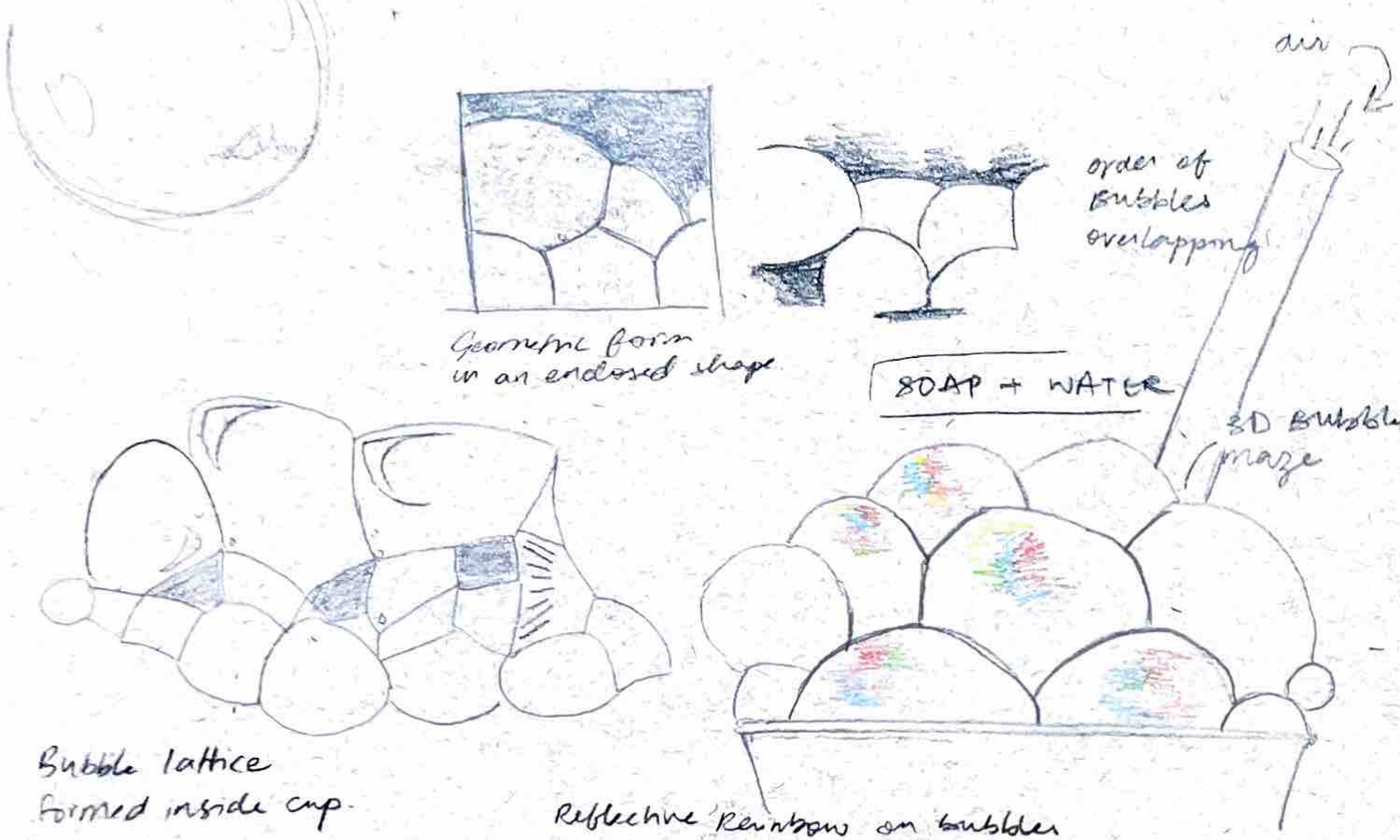
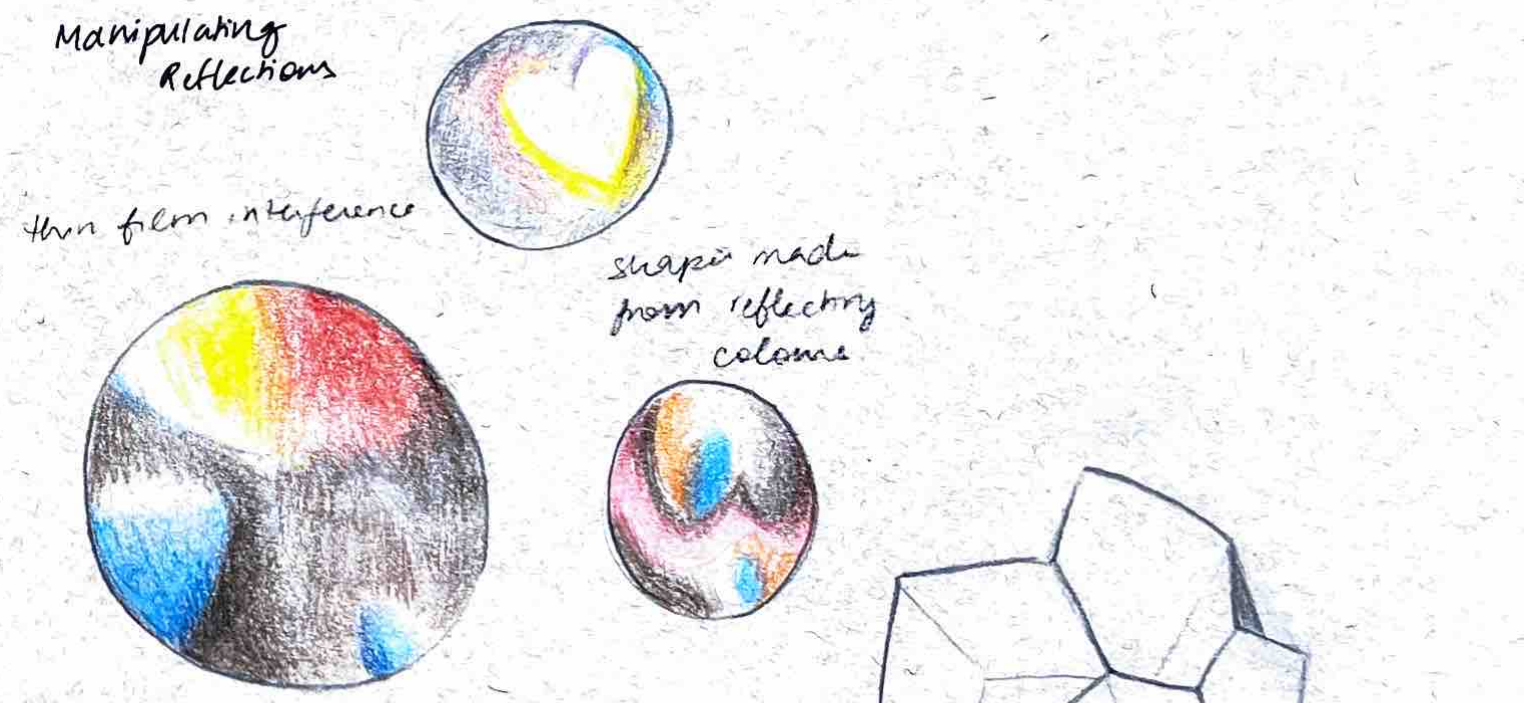


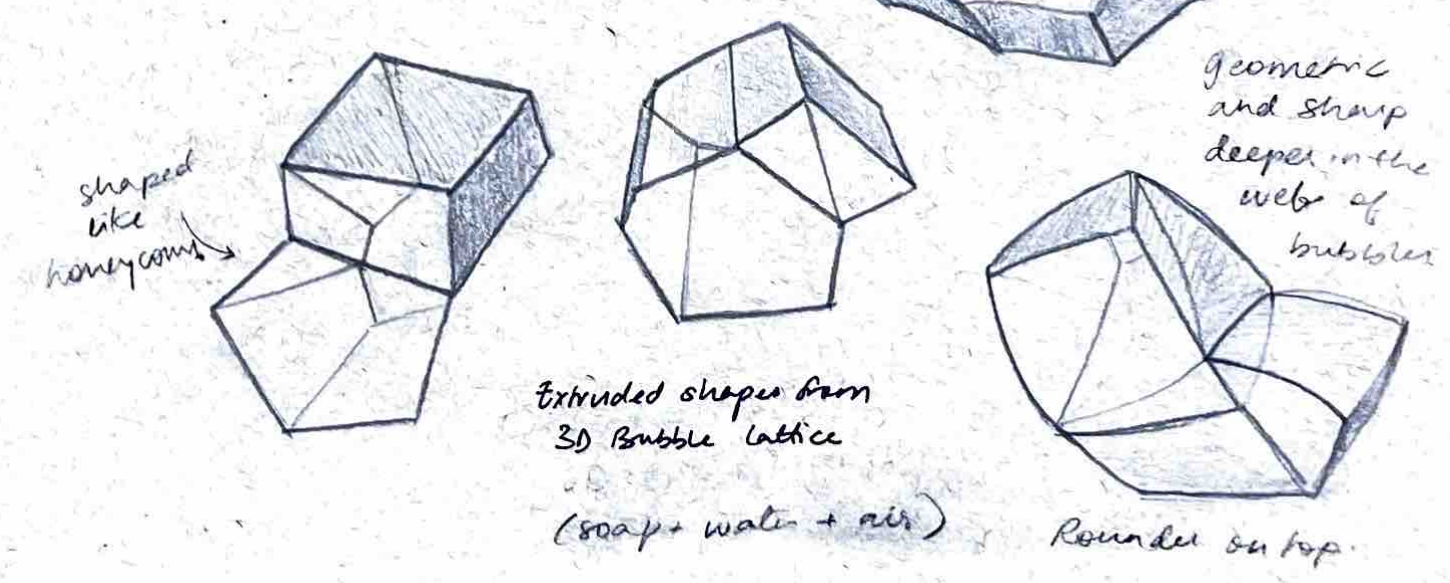
liquids / bubbles



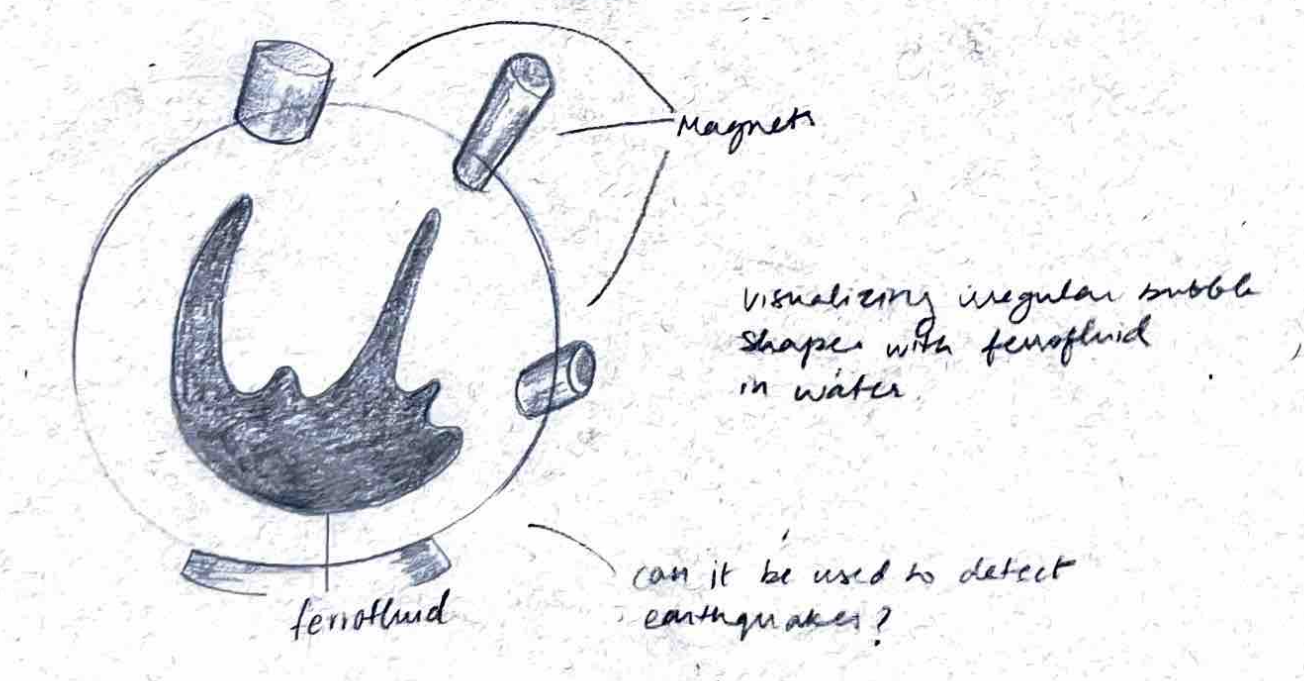
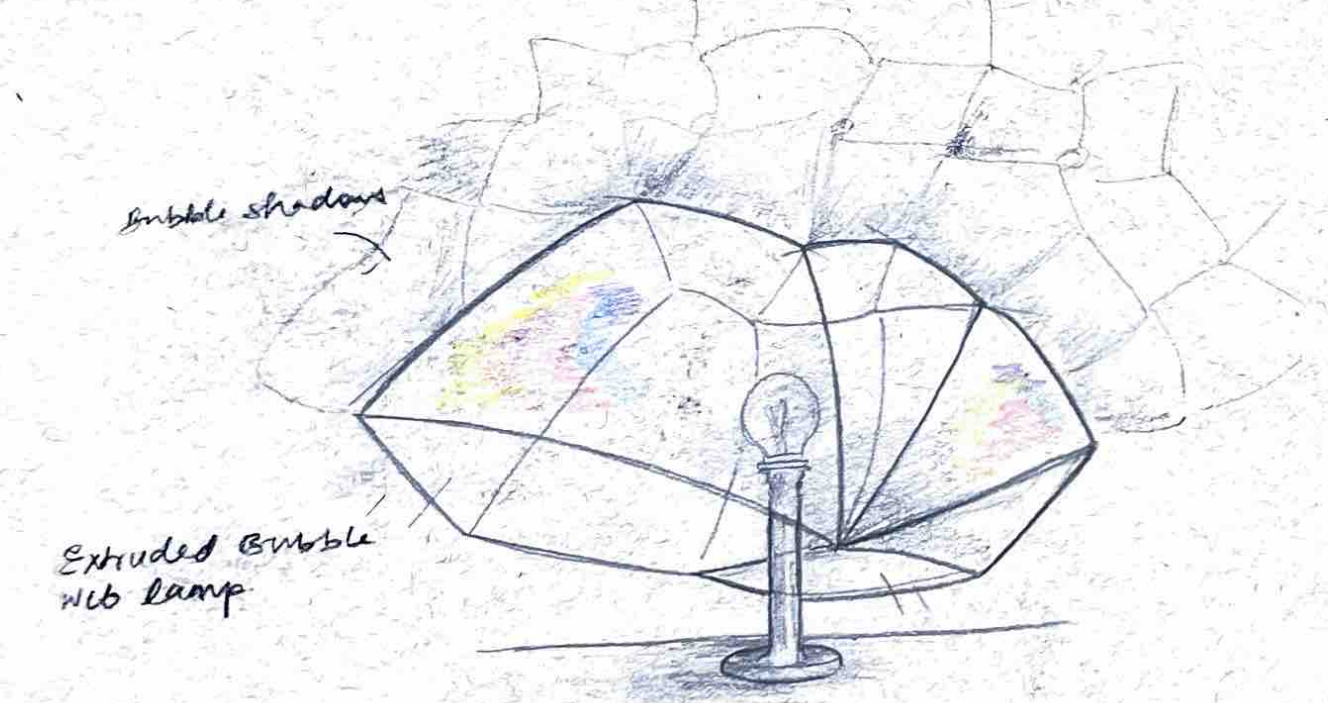
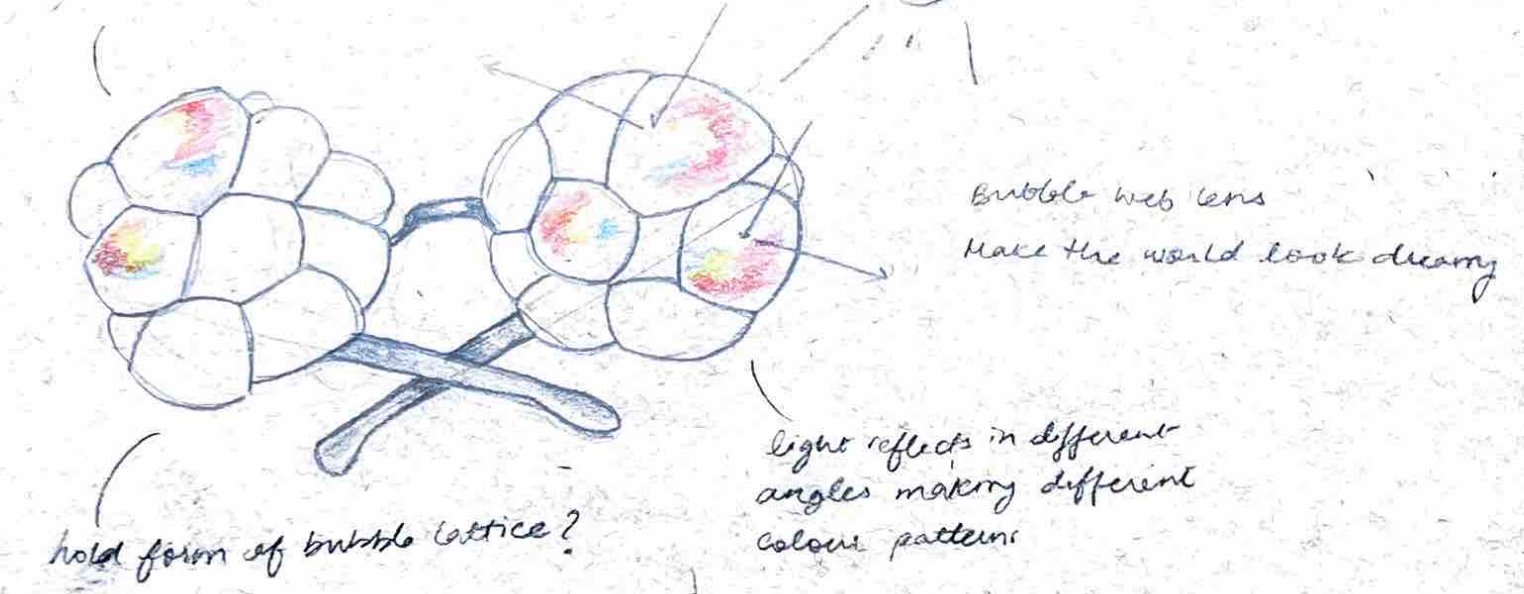
Manipulating Reflections



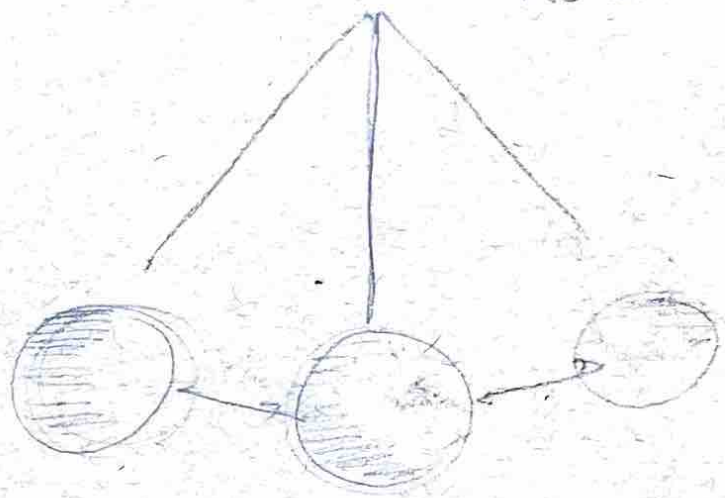
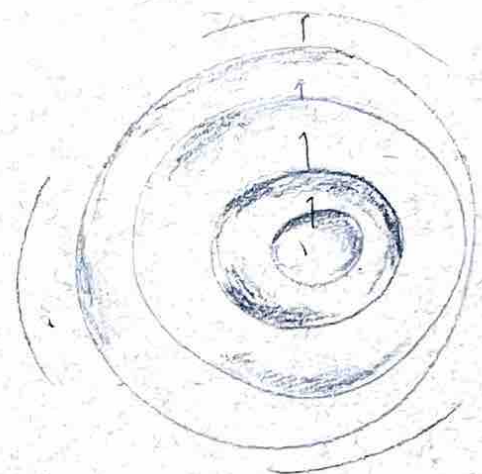
AIRCOMBS (honeycombs w/ air)



capture dreamy visuals



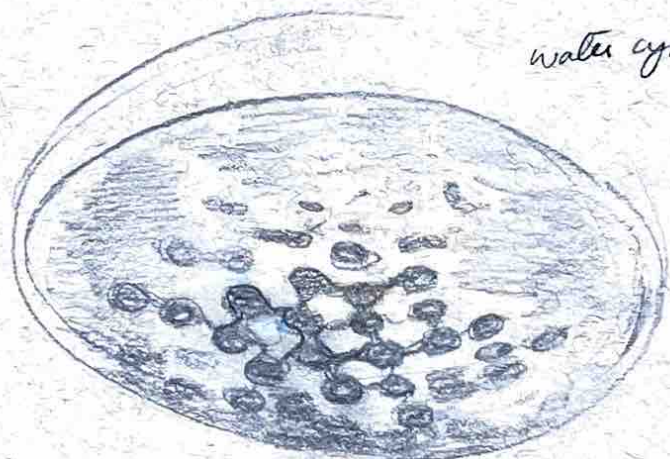
RESONANCE



movement of shadows in ripples of water



water cymatics

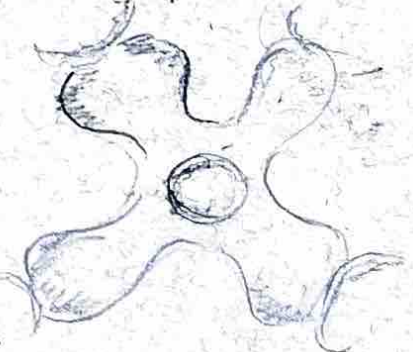


cymatics

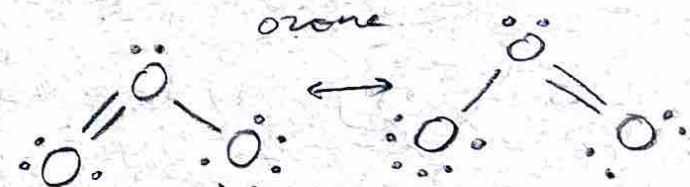


looks like patterns on insects / trees

chladni pattern

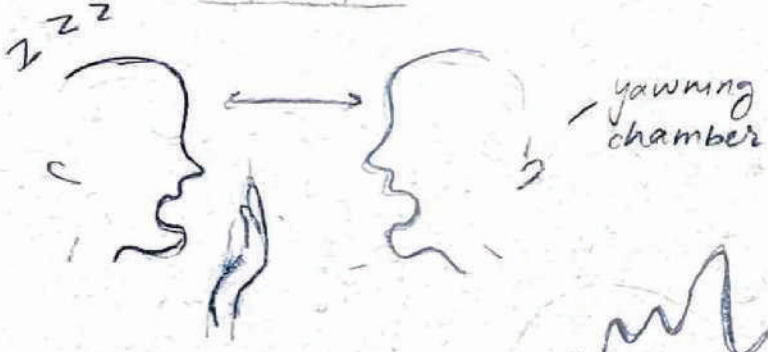


resonance structures delocalized electrons

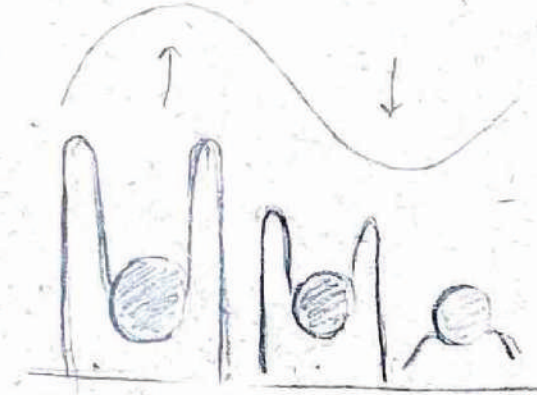


vibration pattern (beads on paper on buzzer)

Behavioral Mimicry as a form of resonance?

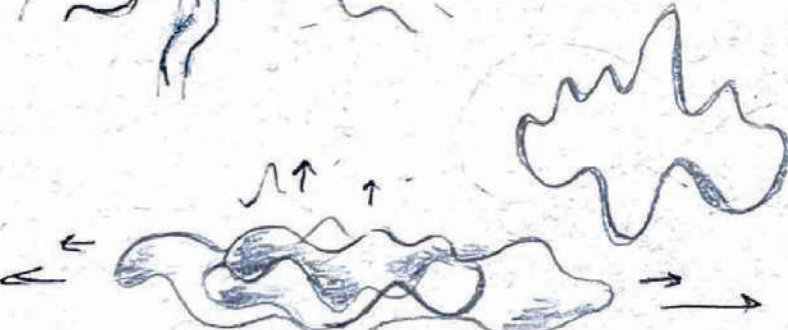


yawning chamber



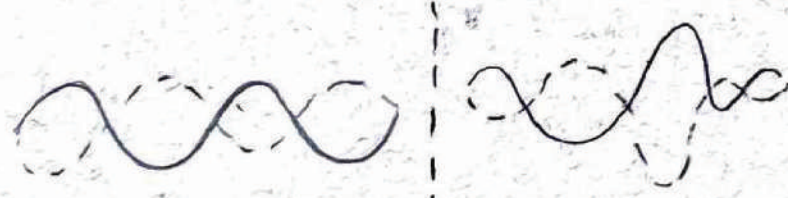
audience waves in stadiums crowd waves

can more of the body be used to create different patterns? colour and flags?



Blood Cymatics?

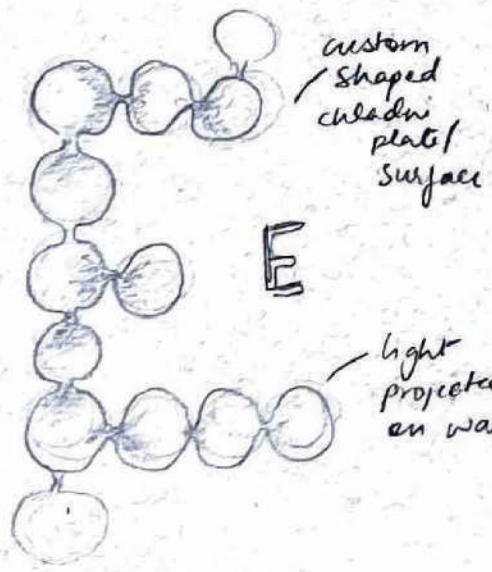
Non-Newtonian fluids - More Random
Can blood properties be measured by cymatics?



cymatics with unclotted blood

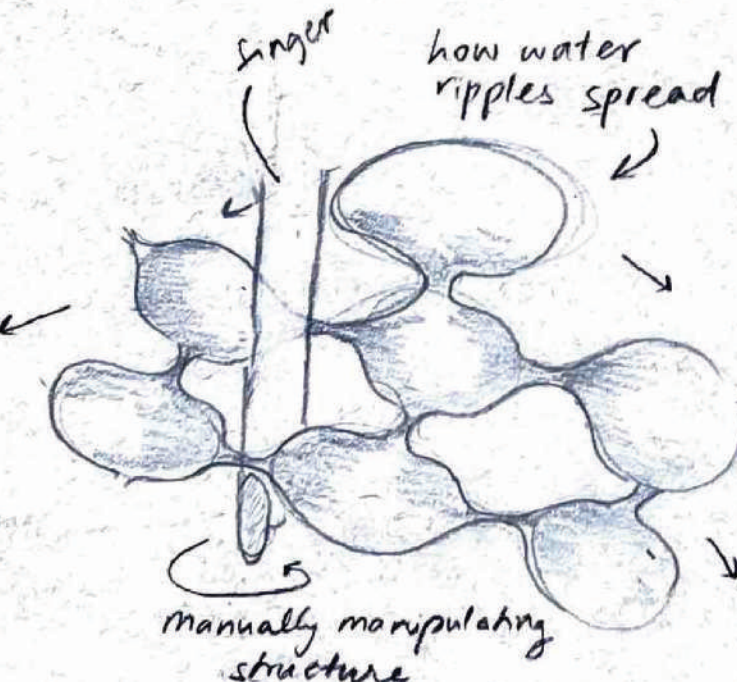
vs cymatics with clotted blood

typography with cymatics



custom shaped chladni plate / surface

light projected on water?

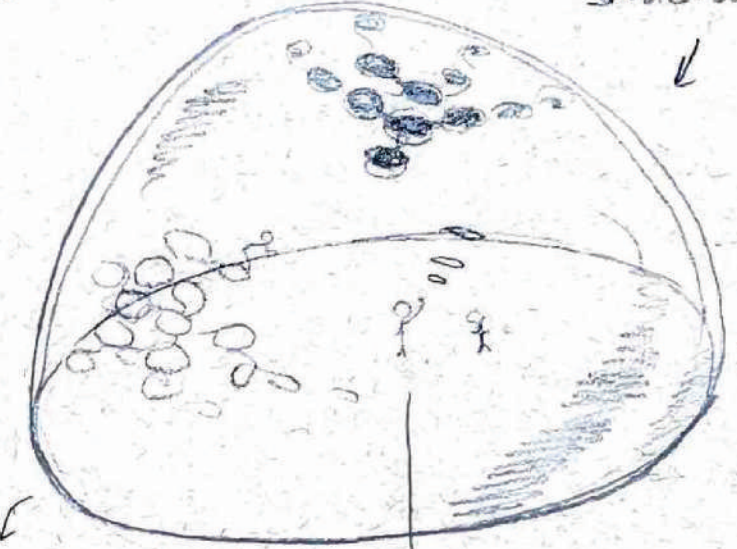


manually manipulating structure

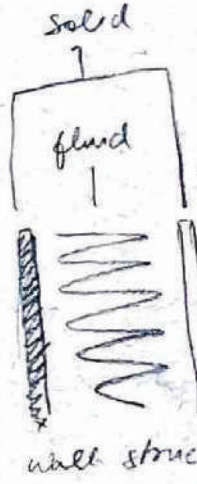
how water ripples spread

finger

Resonant dome structure



wall cymatic patterns respond to voices of people inside



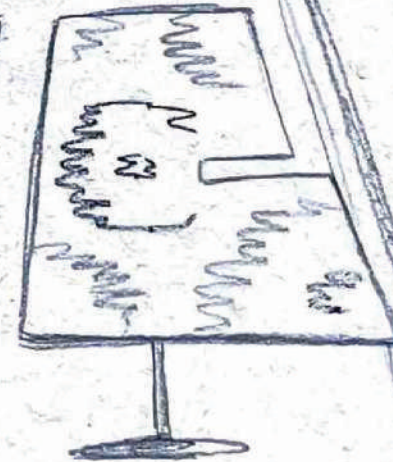
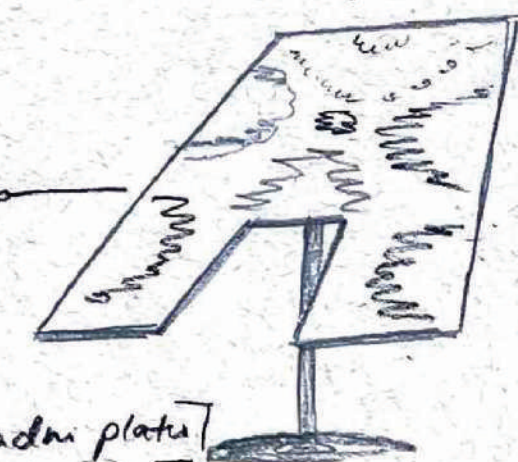
ultrasound emitters can manipulate fluid to form patterns

light

transparent

wall structure

Metal plates cut into letter forms



bow

[Typographic chladni plates]

[water supply art prints]

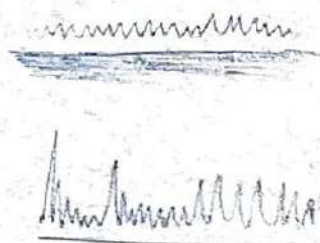


coloured liquid

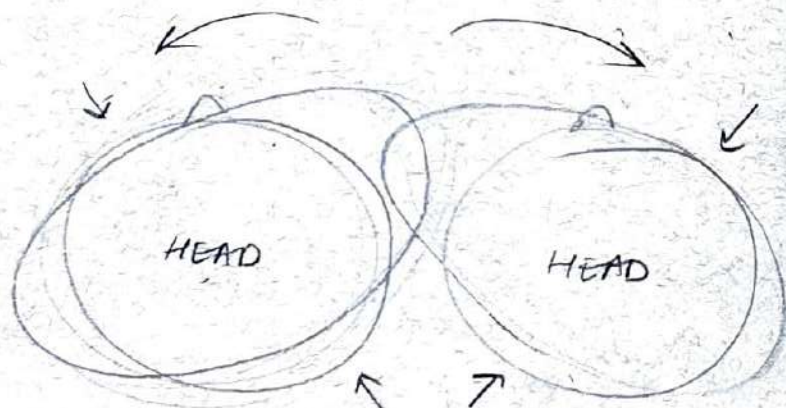


speaker

dip the canvas paper, cloth

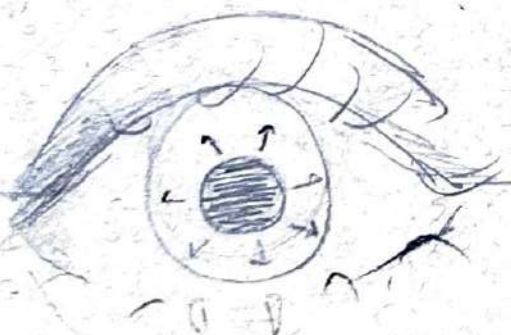


a feeling without touching
a sixth sense?



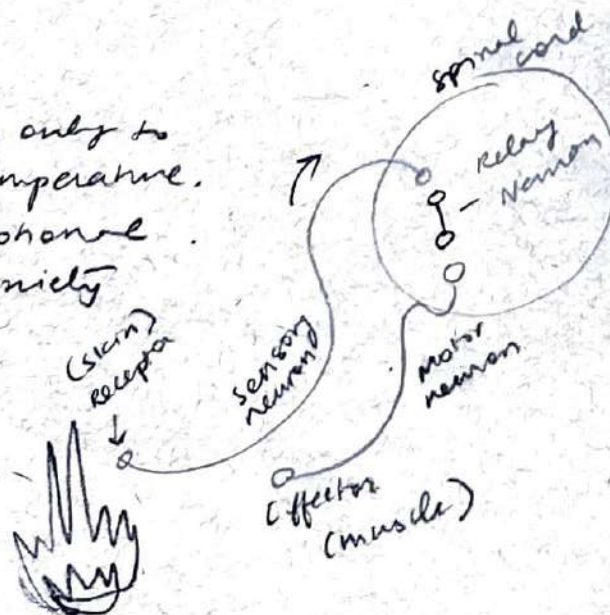
frontotemporal region
is compressed

Pupils
expand &
contract



Sweat on
palms
indicates stress,
anxiety etc.

The body responds not only to
physical factors like temperature,
light but also to emotional
ones - attraction, anxiety



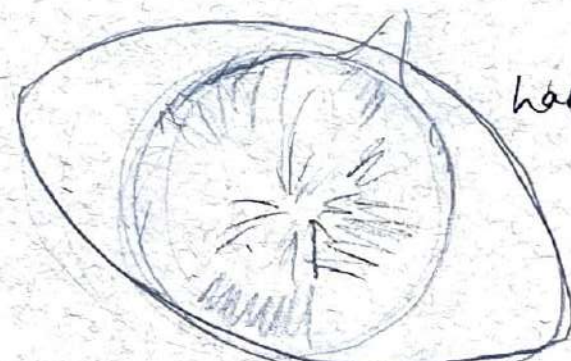
like flowers
following the sun



Both subtle
movements
are similar



The relation
between
darkness & love.



hanger
reflex

Frontotemporal
Region
Sensorimotor pathways
cervicula hanger reflex

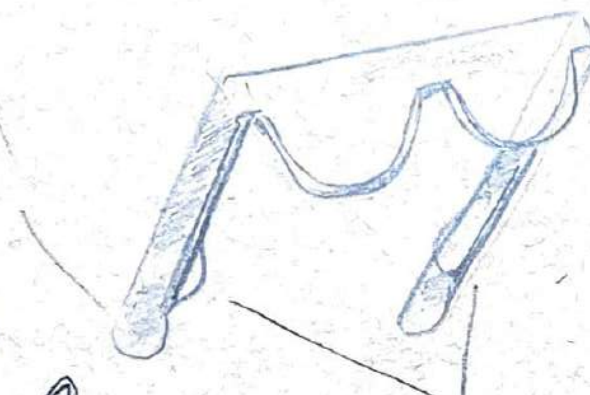


vibrating to imitate heat?

heat = vibration = sound?

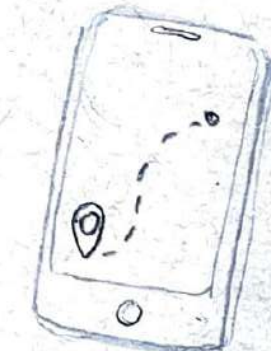
can thermoreceptors
be tricked?
visually "HOT", red in colour.

① glasses based on hanger reflex.



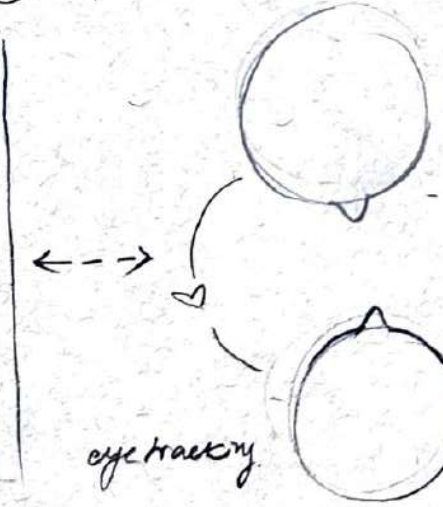
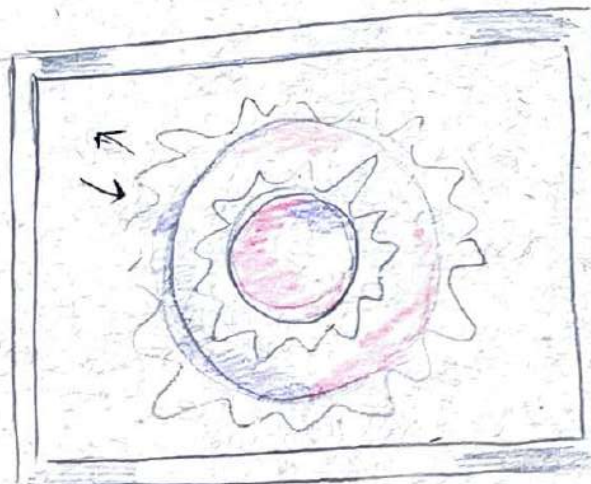
pressure
zones

head hits
right or left
based on
directions



② Interactive installation
to visualize attraction.

visualizing
love and
attraction

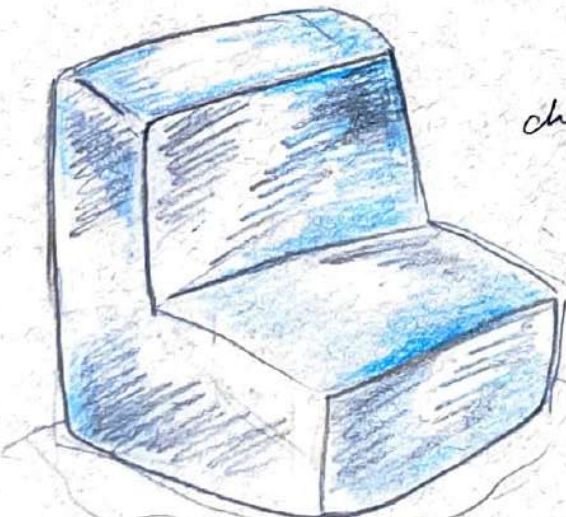


2 people
face each
other
and their
pupil
dilation
is tracked

eye tracking

③

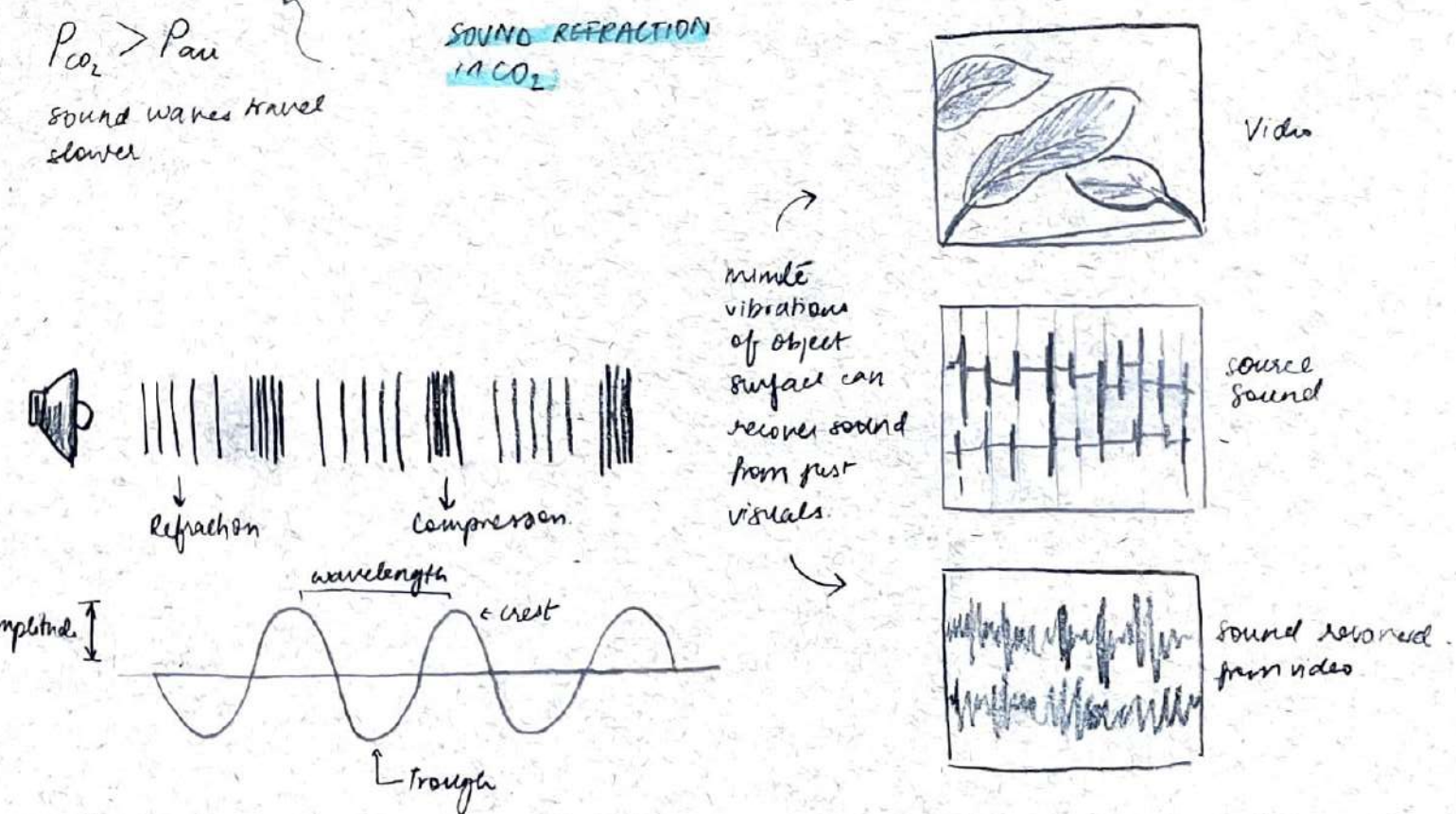
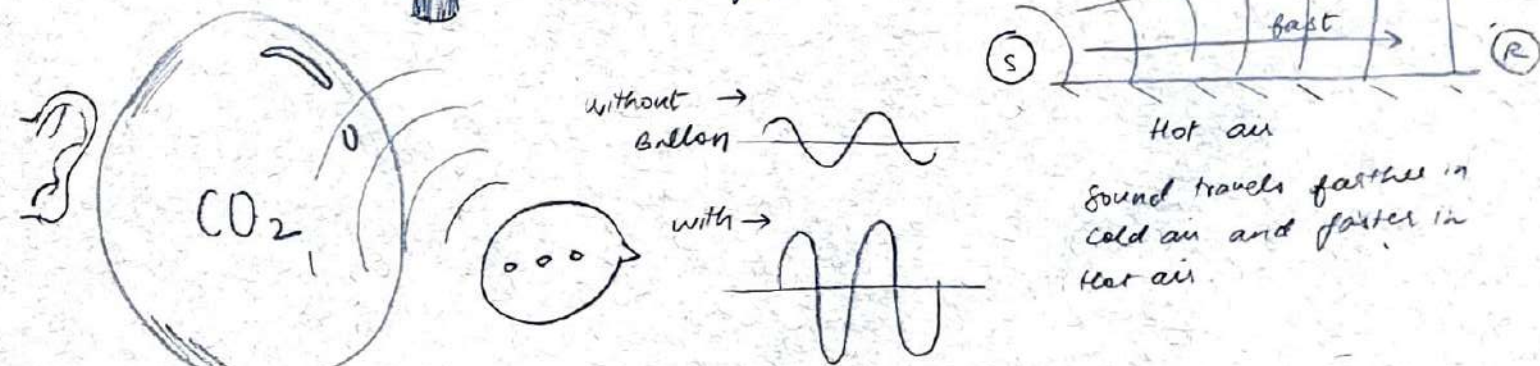
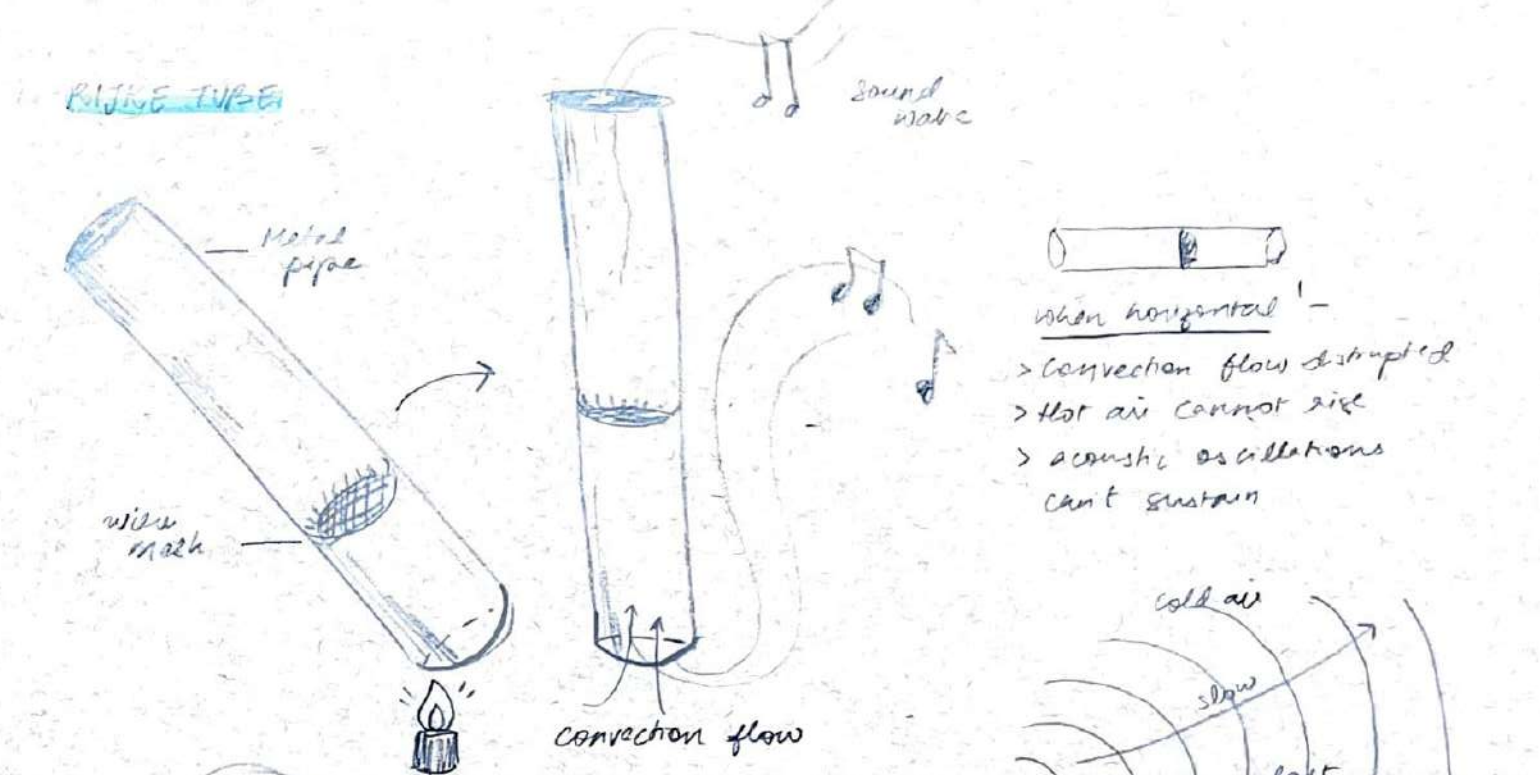
cold
chair



chair visually feels cold
tricking thermoreceptors

ice cube inspired
summer chair

Rijke Tube



Sound physics Revision

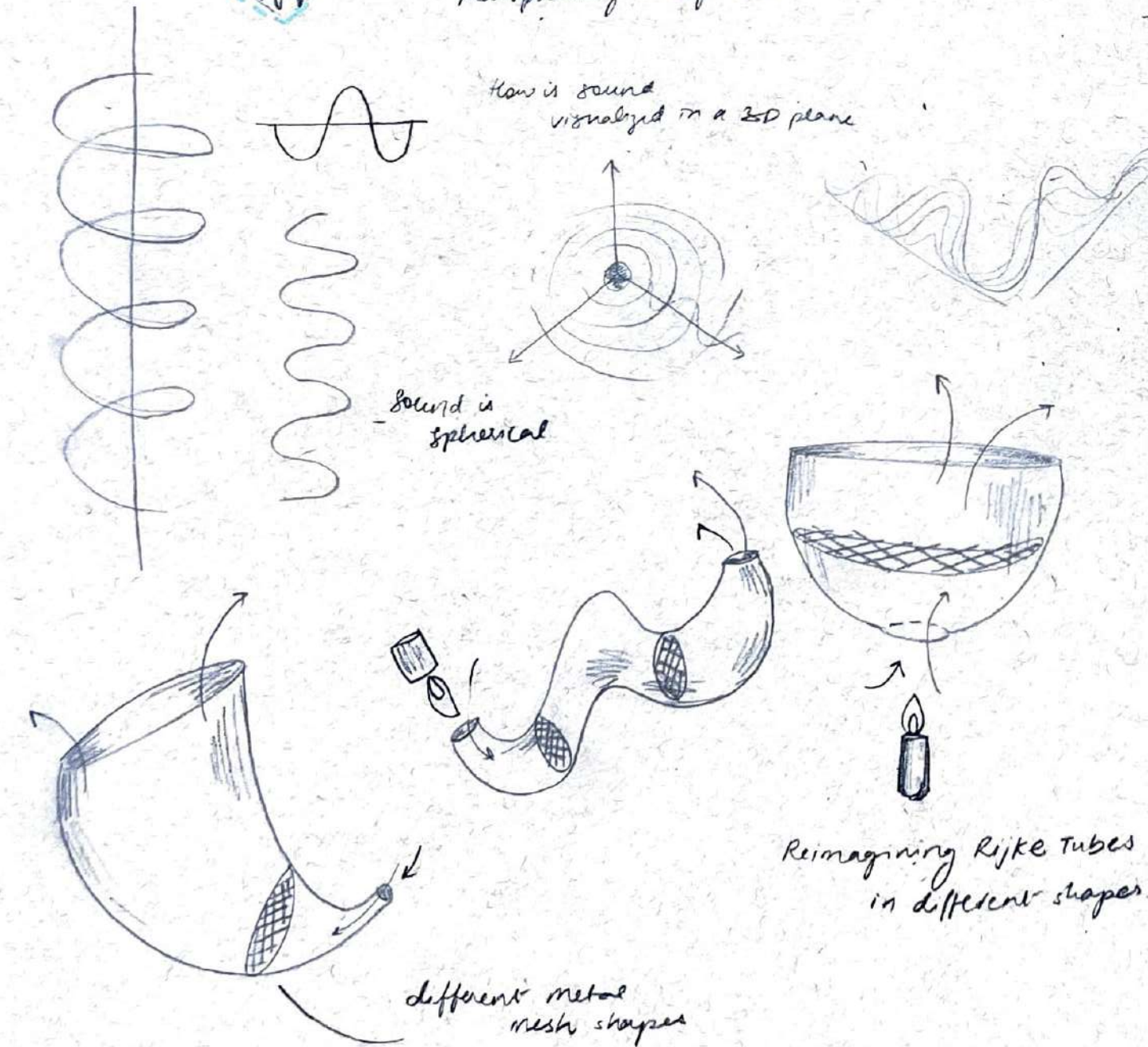
The visual microphone

Reimagining waveforms



Manipulating waveforms

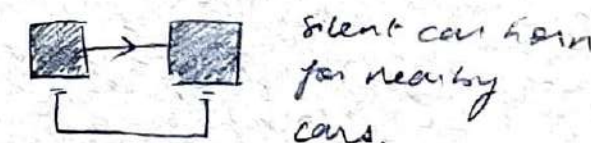
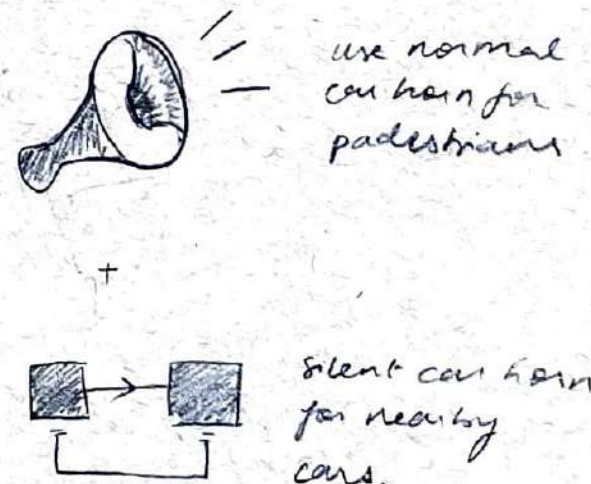
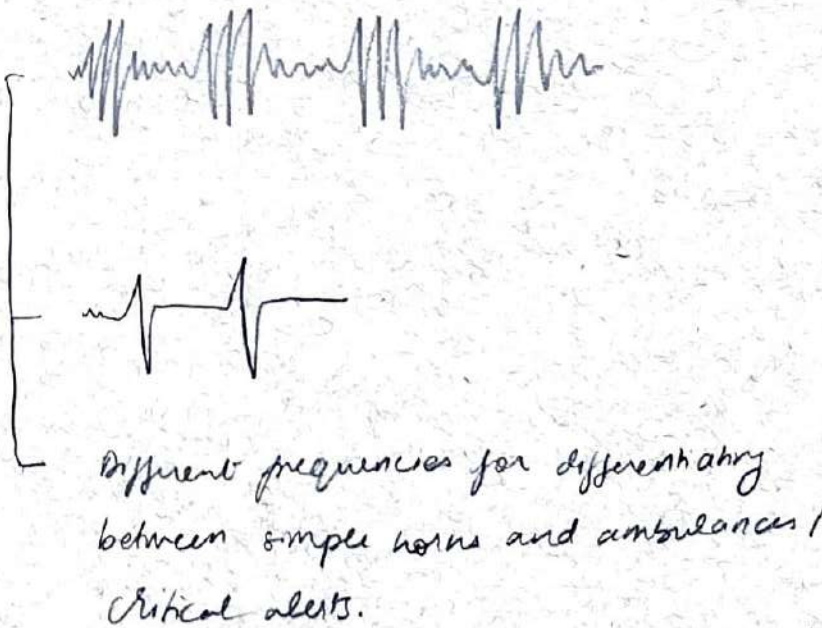
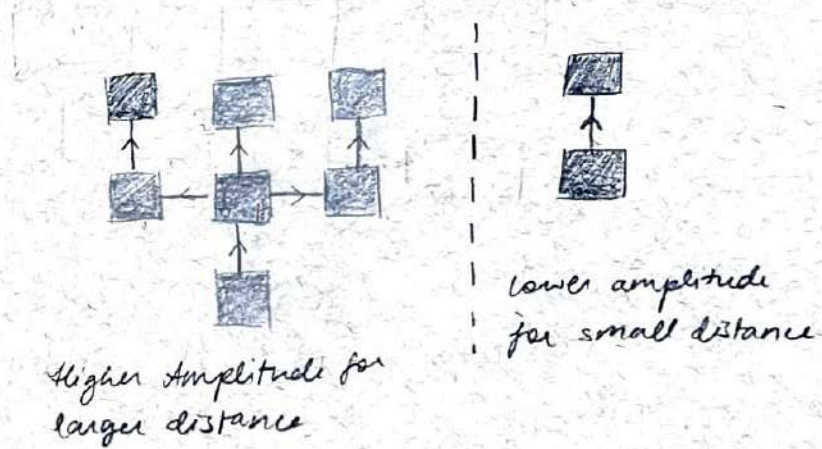
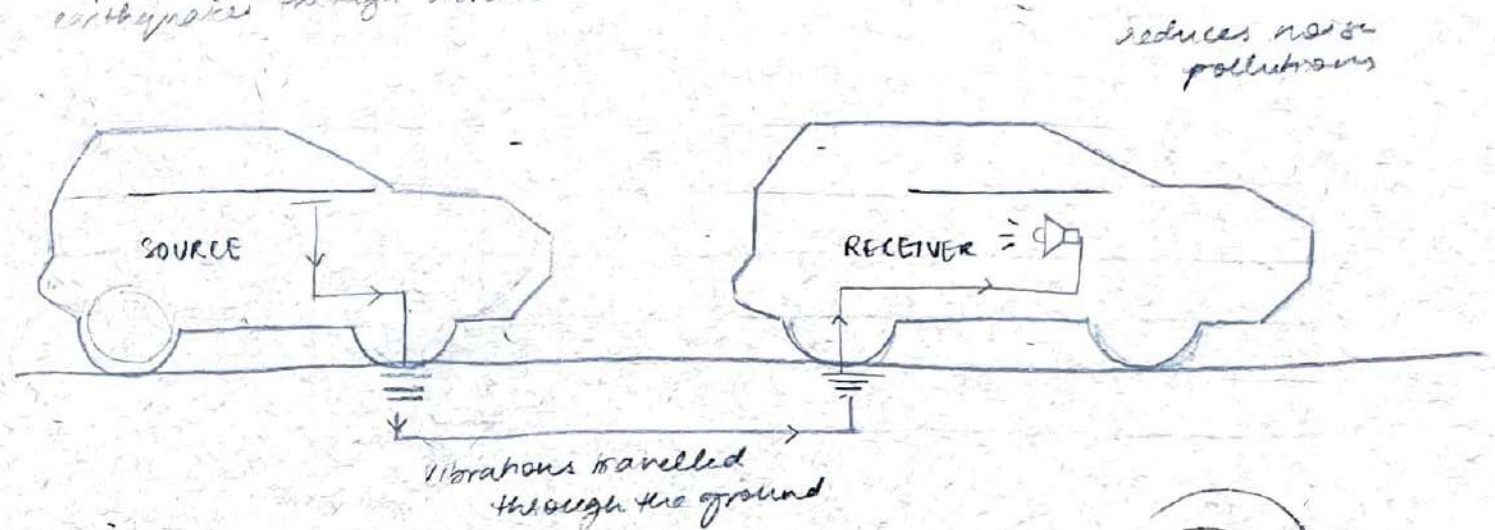
How is sound visualized in a 2D plane



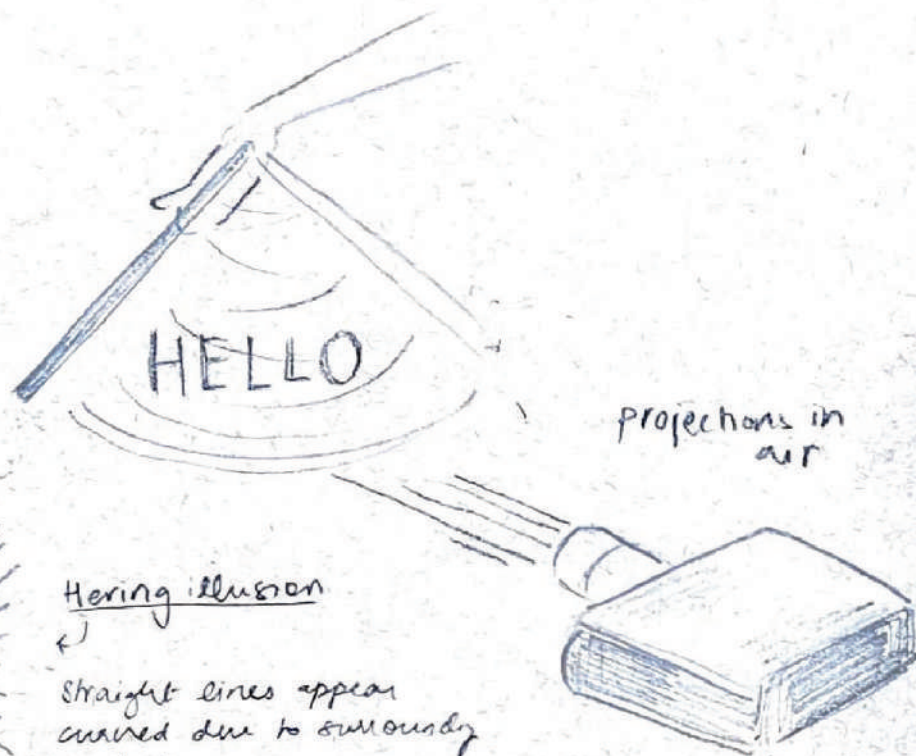
Important instrument

SILENT CAR HORN

Inspired by how animals can detect earthquakes through vibrations

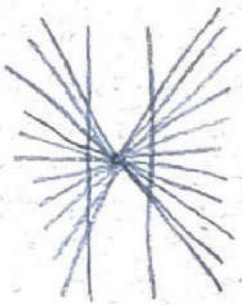


After images



Hering illusion

Straight lines appear curved due to surrounding radial lines



illusory motion



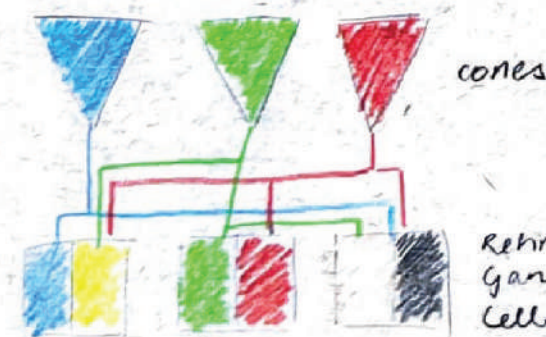
After images complementary colours

Prolonged exposure to colours = fatigued cone cells.

↳ Temporary imbalance in colour perception.

↳ other active cone cells dominate

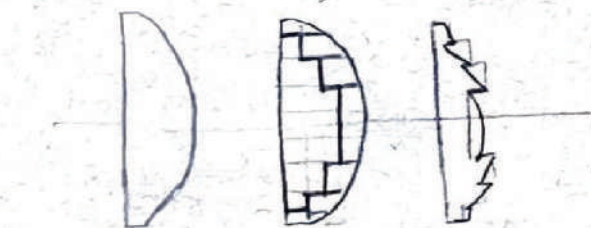
↳ opponent process theory



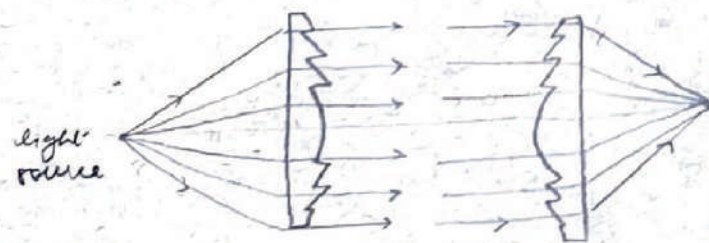
cones

Retinal Ganglion Cells

(neurons - inner layer of retina)



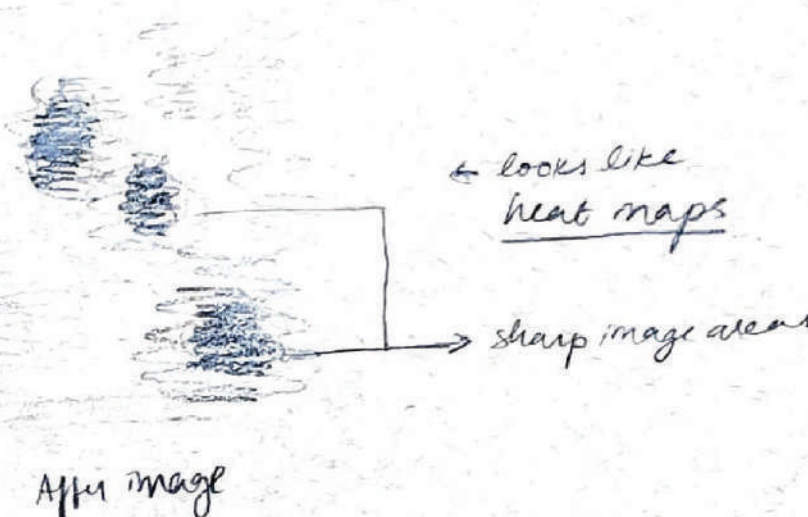
Formation of Fresnel lens



light source



image



After image

looks like heat maps

sharp image areas

light strip along edges

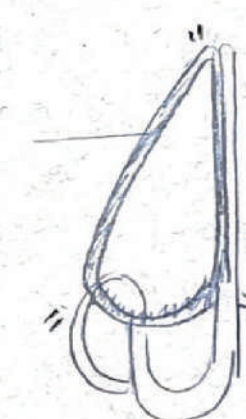


image (lamp at home)



after image

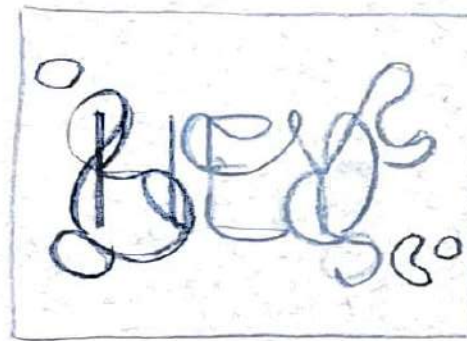
> after image creates a double image
> metal (non-illuminated parts) disappear in after image

↓
can be used for hidden messages.



image appears in motion on rapid blinking and subtle eye movements.

SECRET MESSAGING

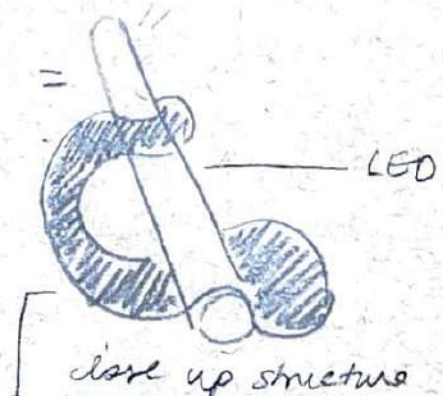


object (3D)

After image

> At first glance you see a complex shape with lit elements + no lit components.
> In memory (after image) you only see the text.

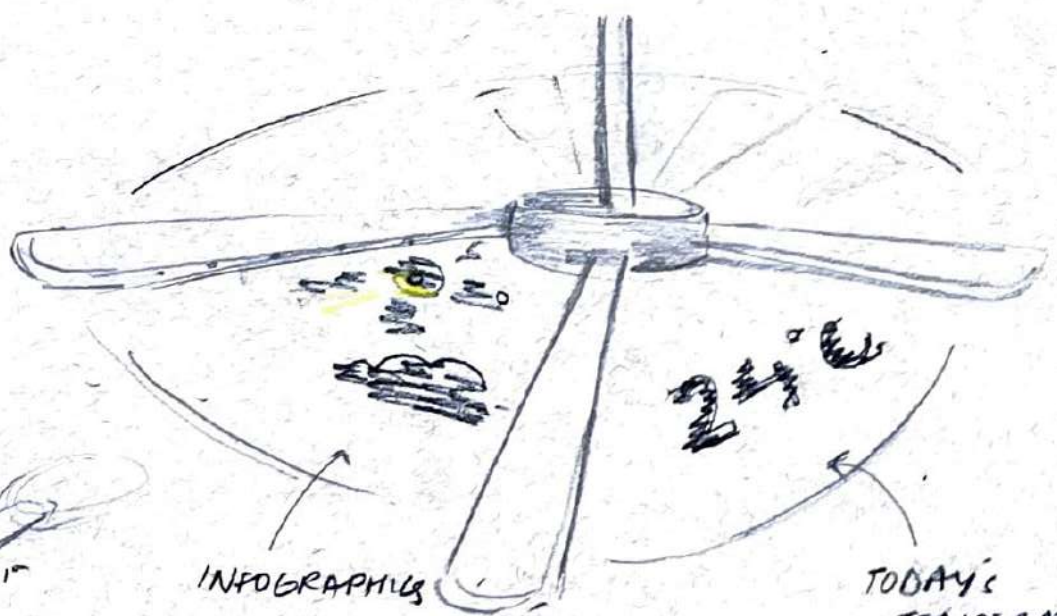
After image might alter the memory of the object(?)



LED

close up structure

metal



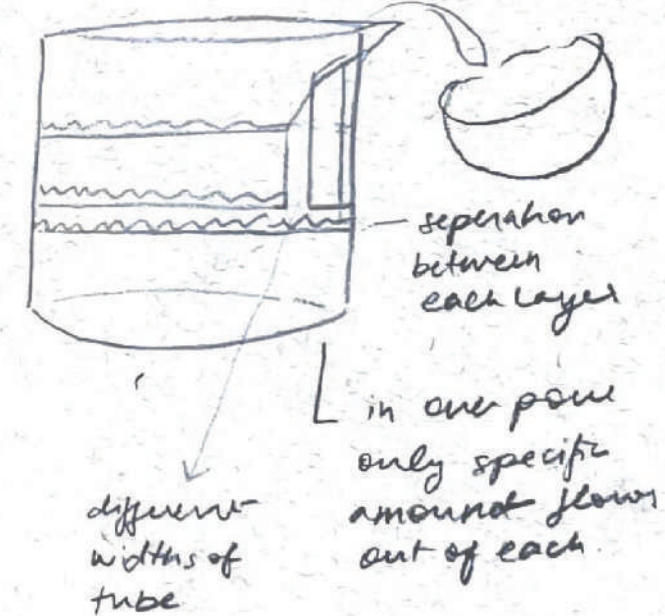
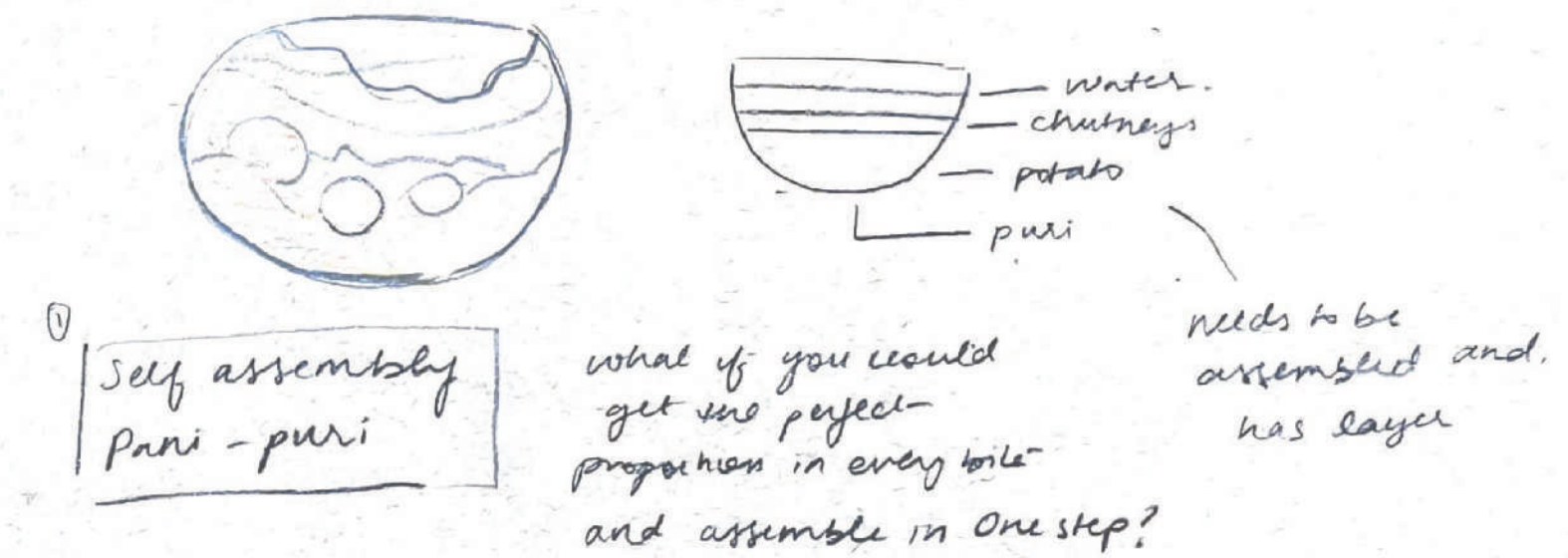
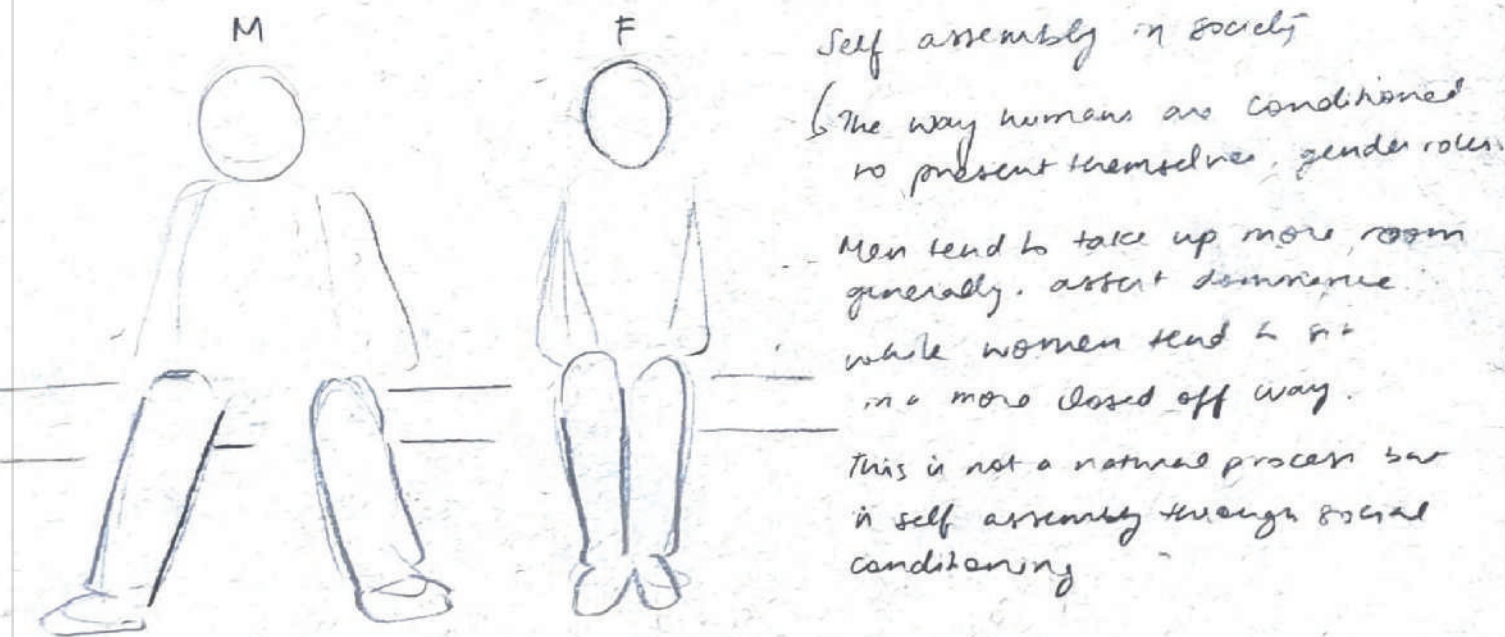
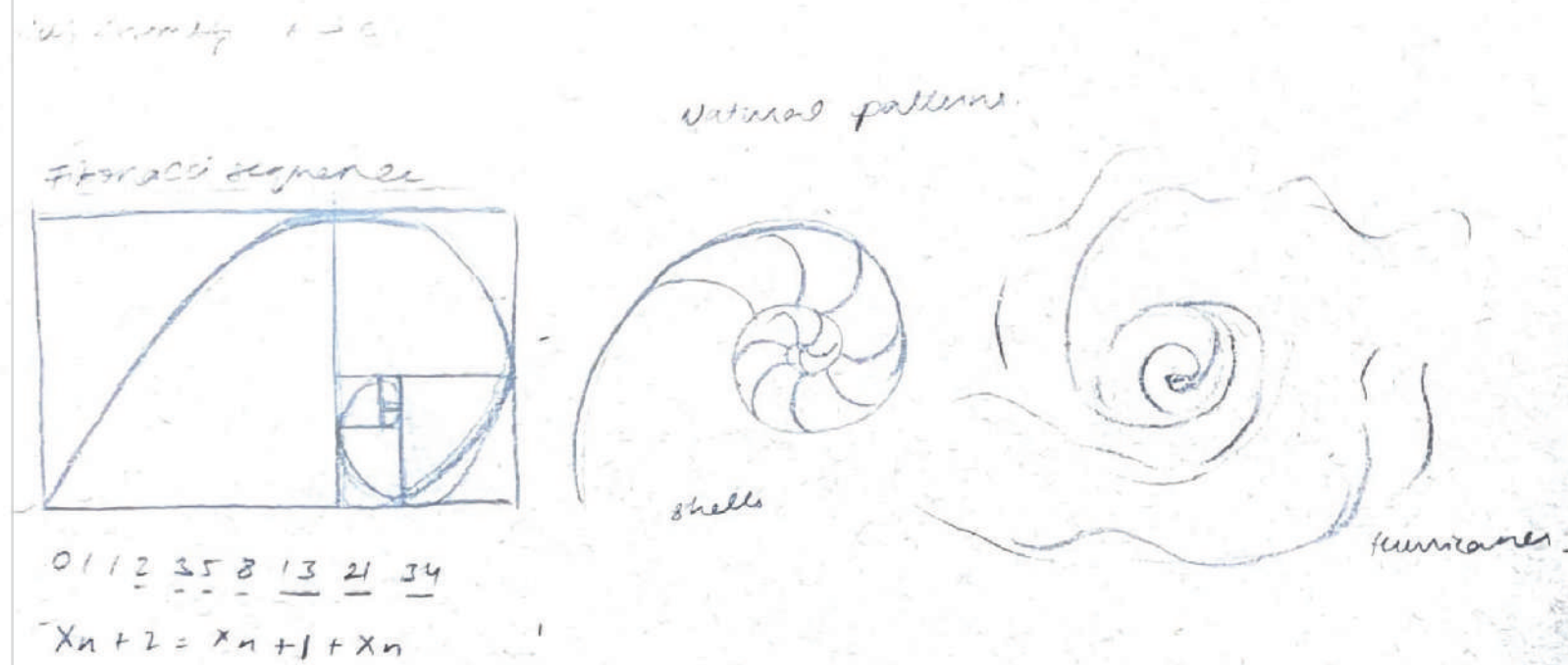
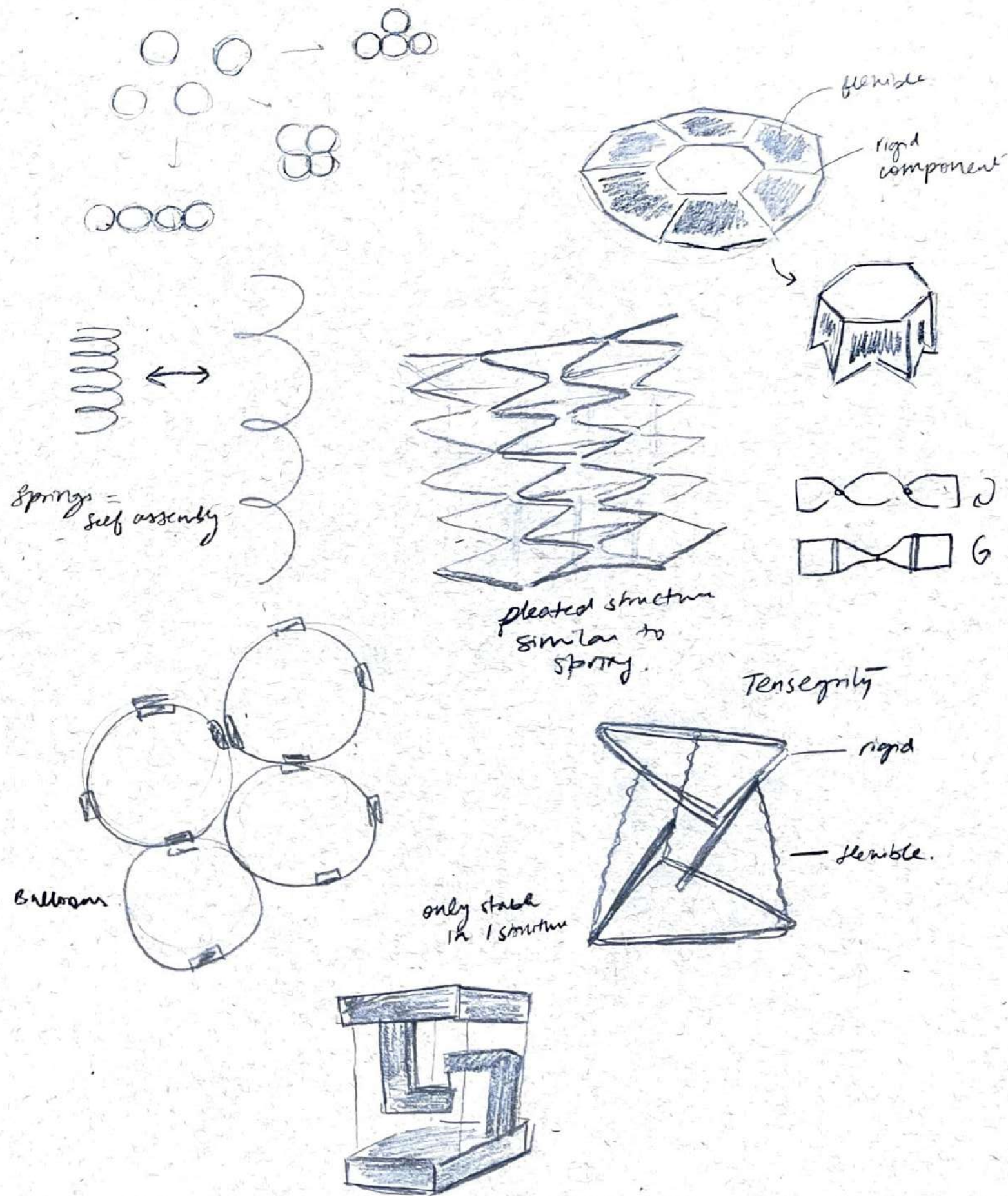
FAN BLADE

LEDs

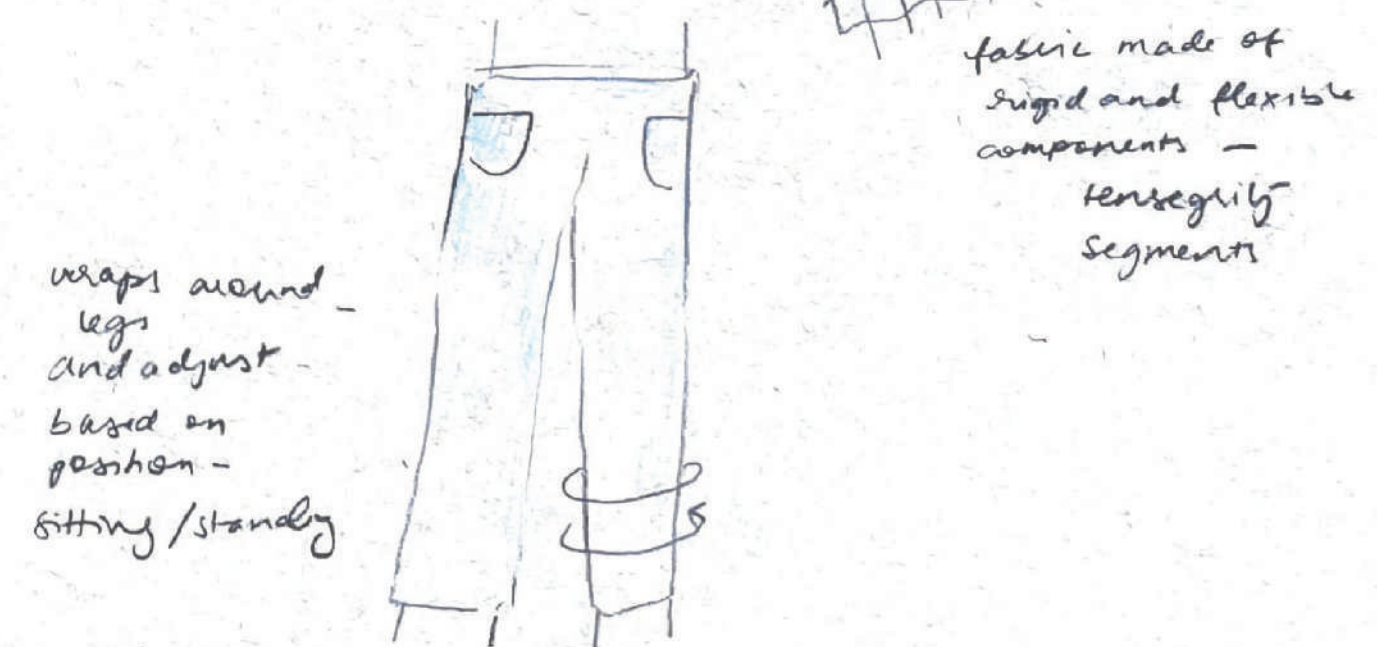
INFOGRAPHICS

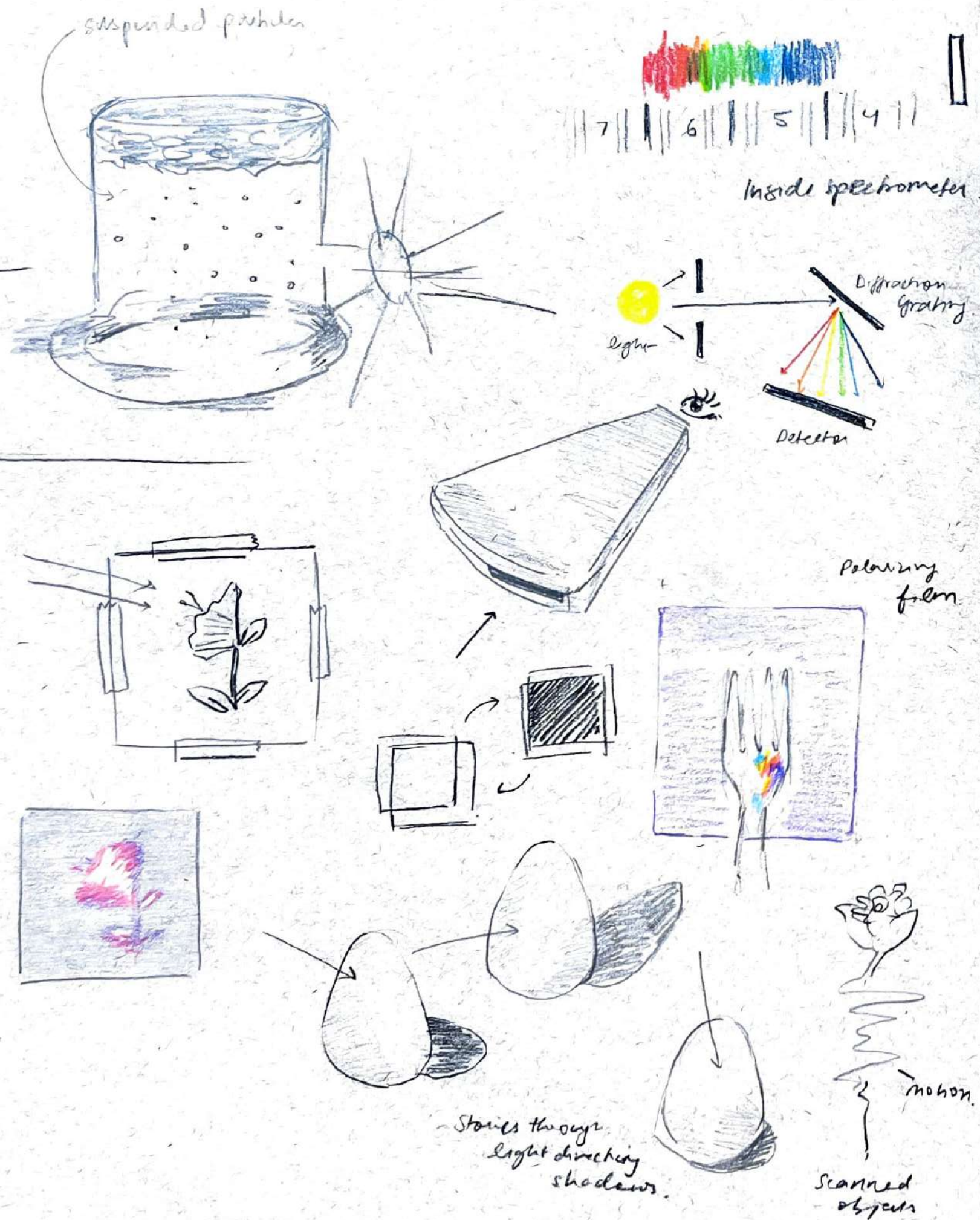
TODAY'S TEMPERATURE

INFORMATIVE CEILING FAN USING PERSISTENCE OF VISION



② TENSEGRITY PANTS

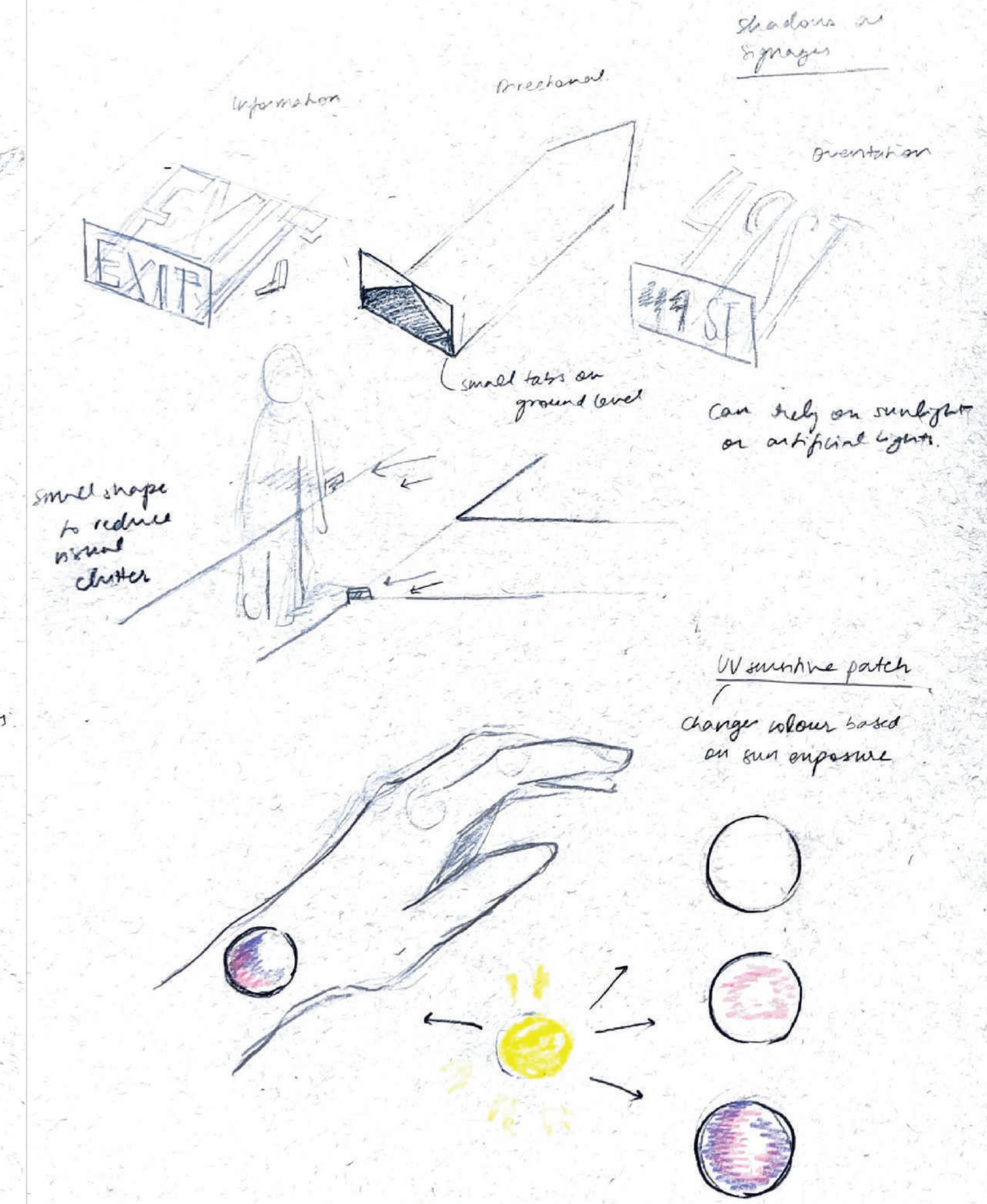
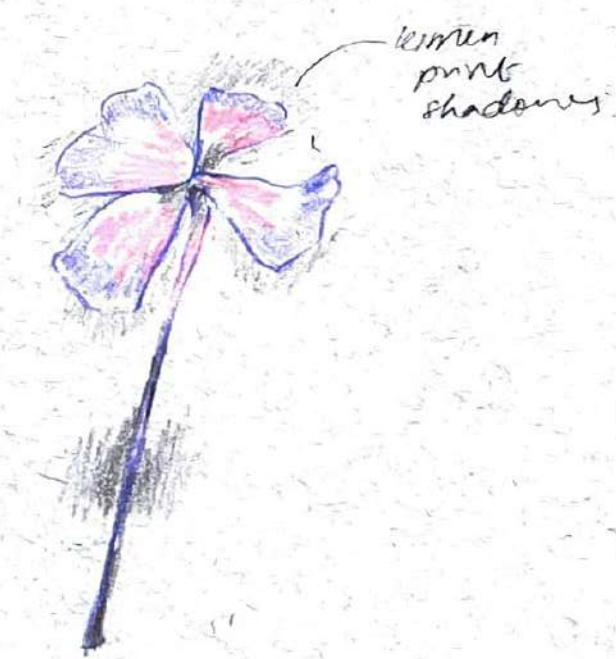




Lumen Print of Rose (+ water)

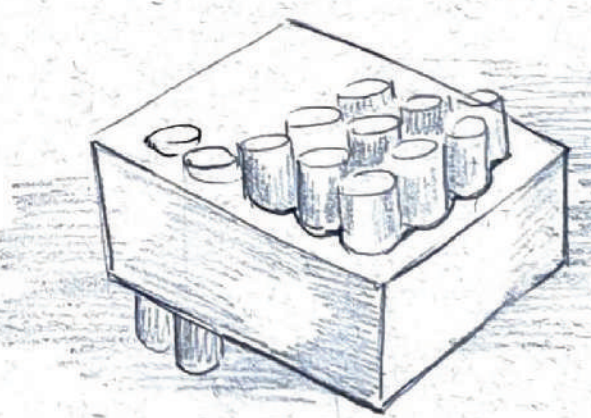


Image continues to alter over time, requires a photo fixer to preserve / stop time.

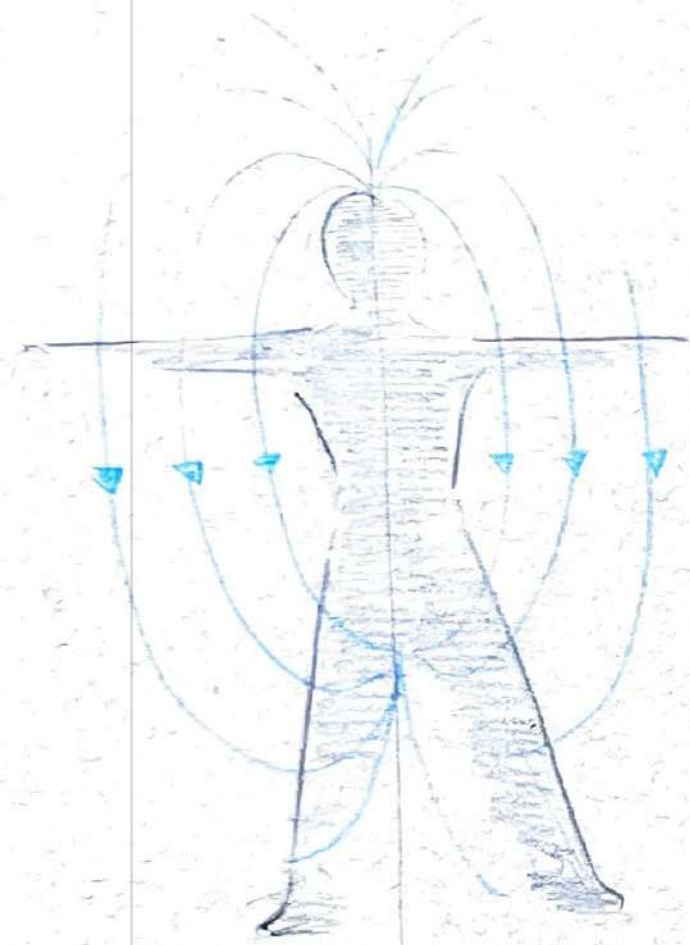
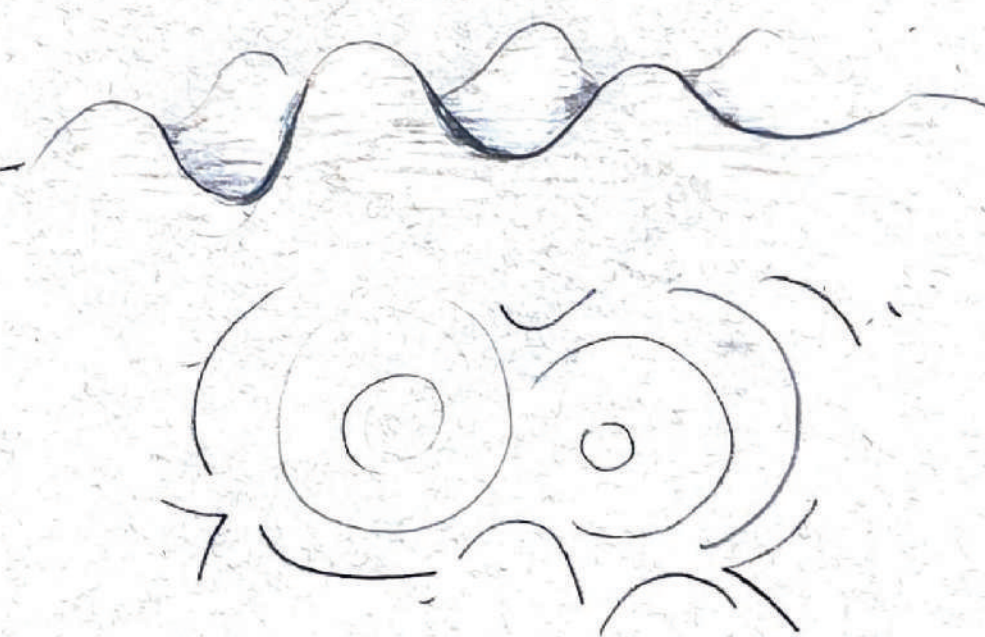
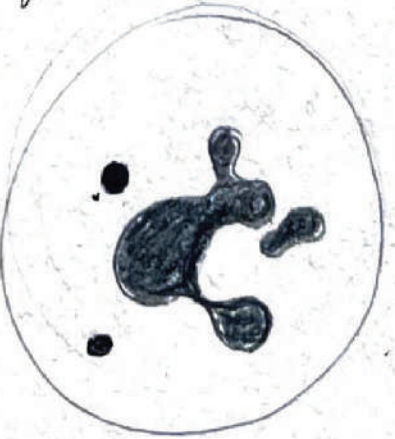




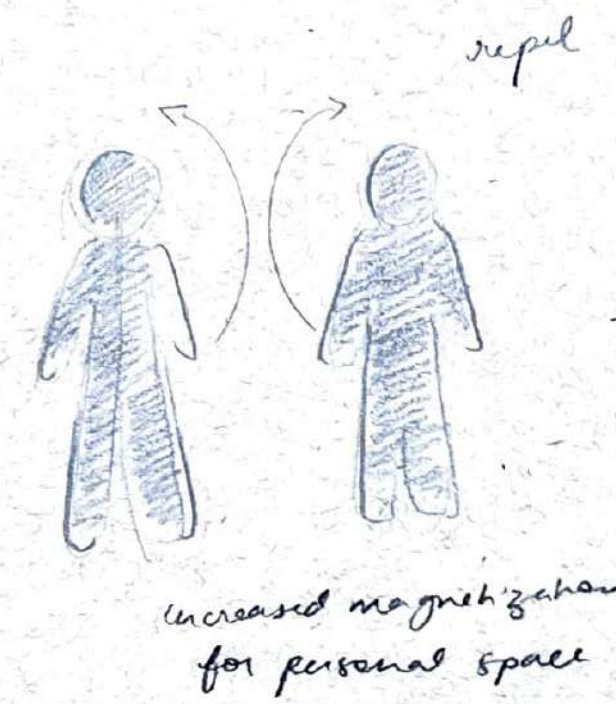
Belousov-Zhabotinsky reaction



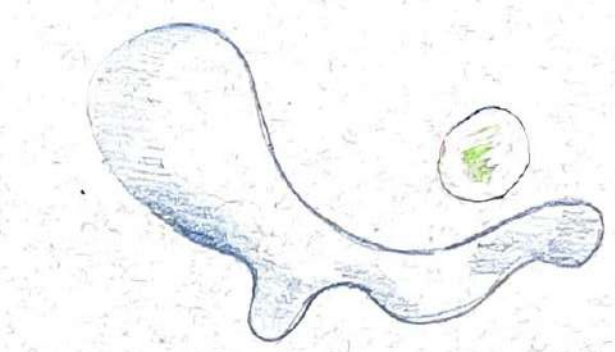
ferrofluid



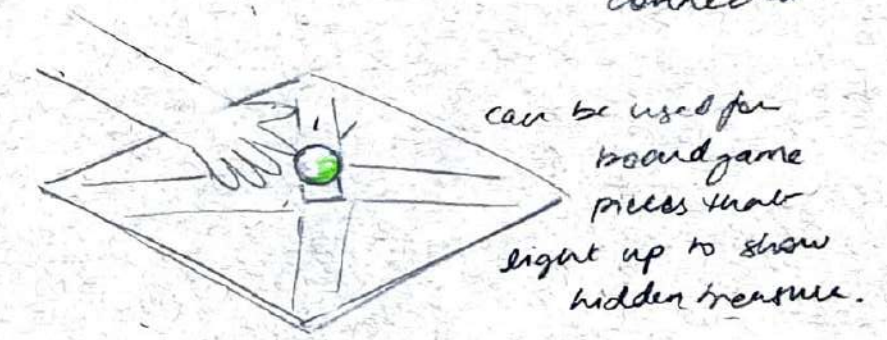
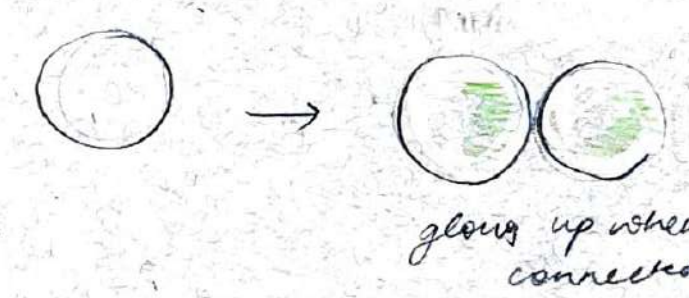
magnetic field around human body.



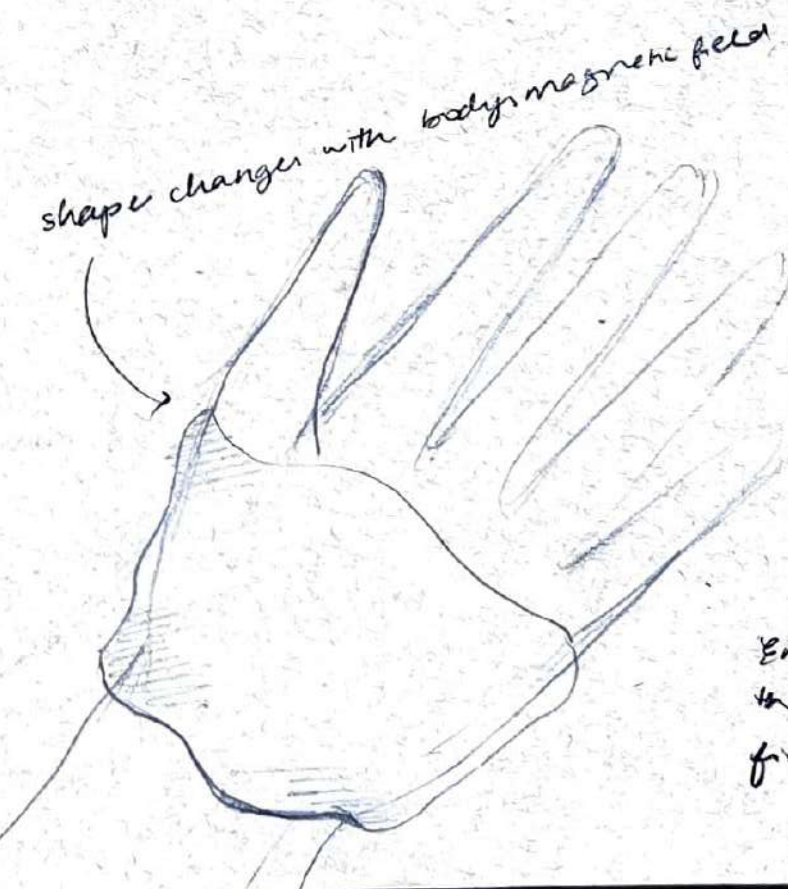
bees use earth's magnetic field to navigate, orientation



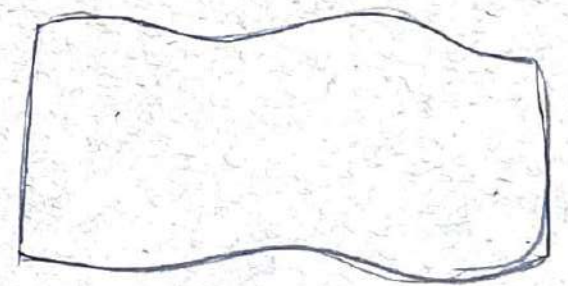
magnetic + luminescent substance
ferrofluid + phosphorescent



magnetic cloth



Enhances and utilizes the body's magnetic field



magnetometer
bioelectromagnetic sensing
shape memory polymer