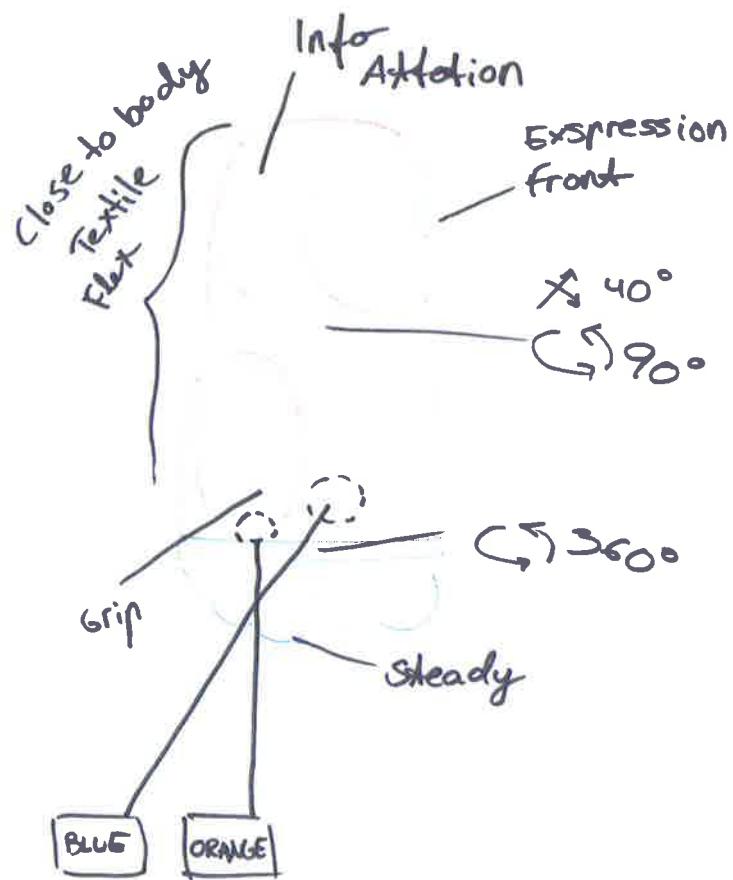


SKETCH BOOK



We have collected many of our sketches through out the diploma, we wanted to keep them for flicking through, here you can have a look.

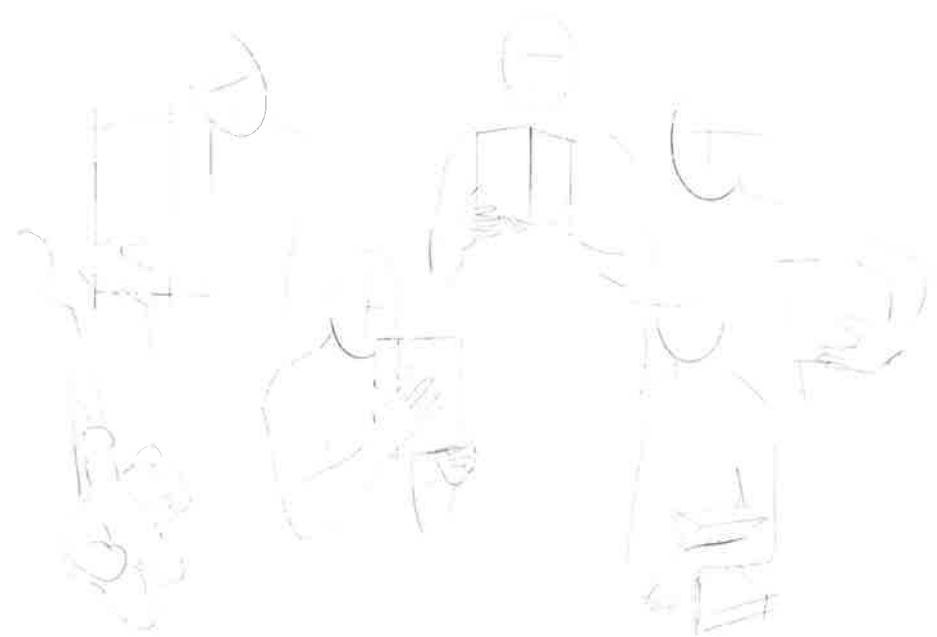
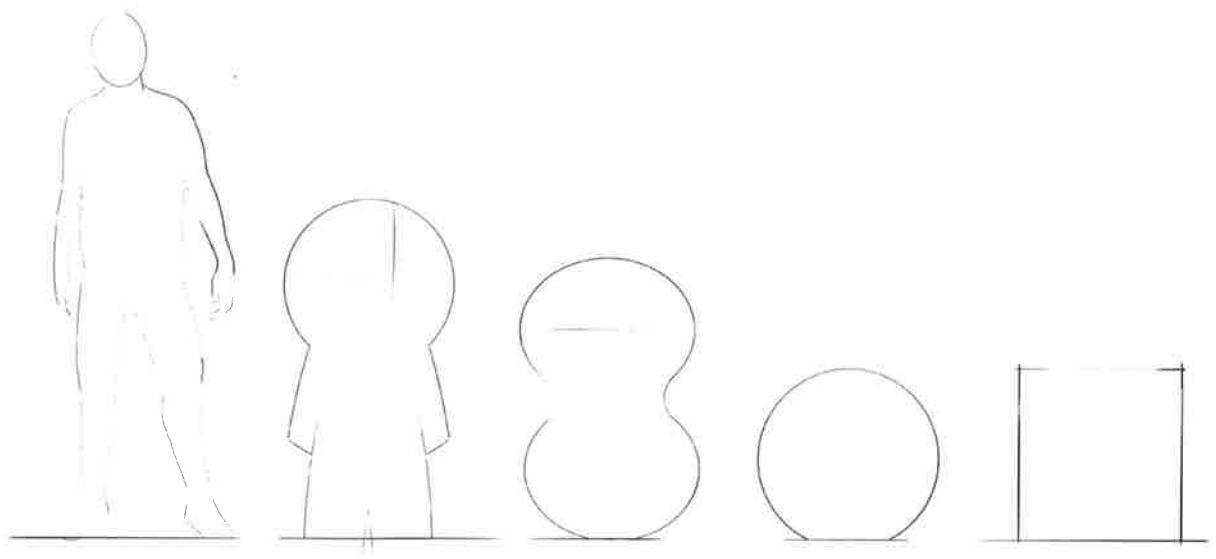
DIPLOMA PROJECT

TEA SKOG & ASLAK SØDAL

PRODUCT & TANGIBLE INTERACTION DESIGN

EARLY EXPLORATIONS

SHAPE & FUNCTIONS



COMMUNICATION TOOL

SOCIAL OBJECT

SYNLIGHET



→ PLASTIK - Hvit
GLASS

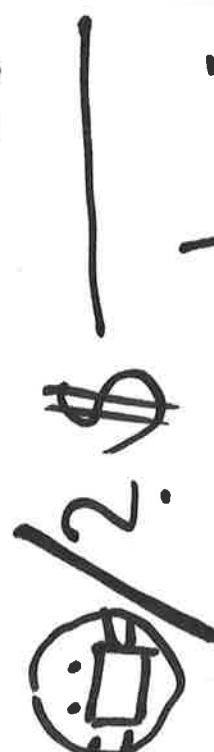
- LÆRER - APP - ELEV



LYS PULSERING

"IKKE LÉK
KAN LÉKE"
BATTERI
LADING!

APP



DELTACELLSE

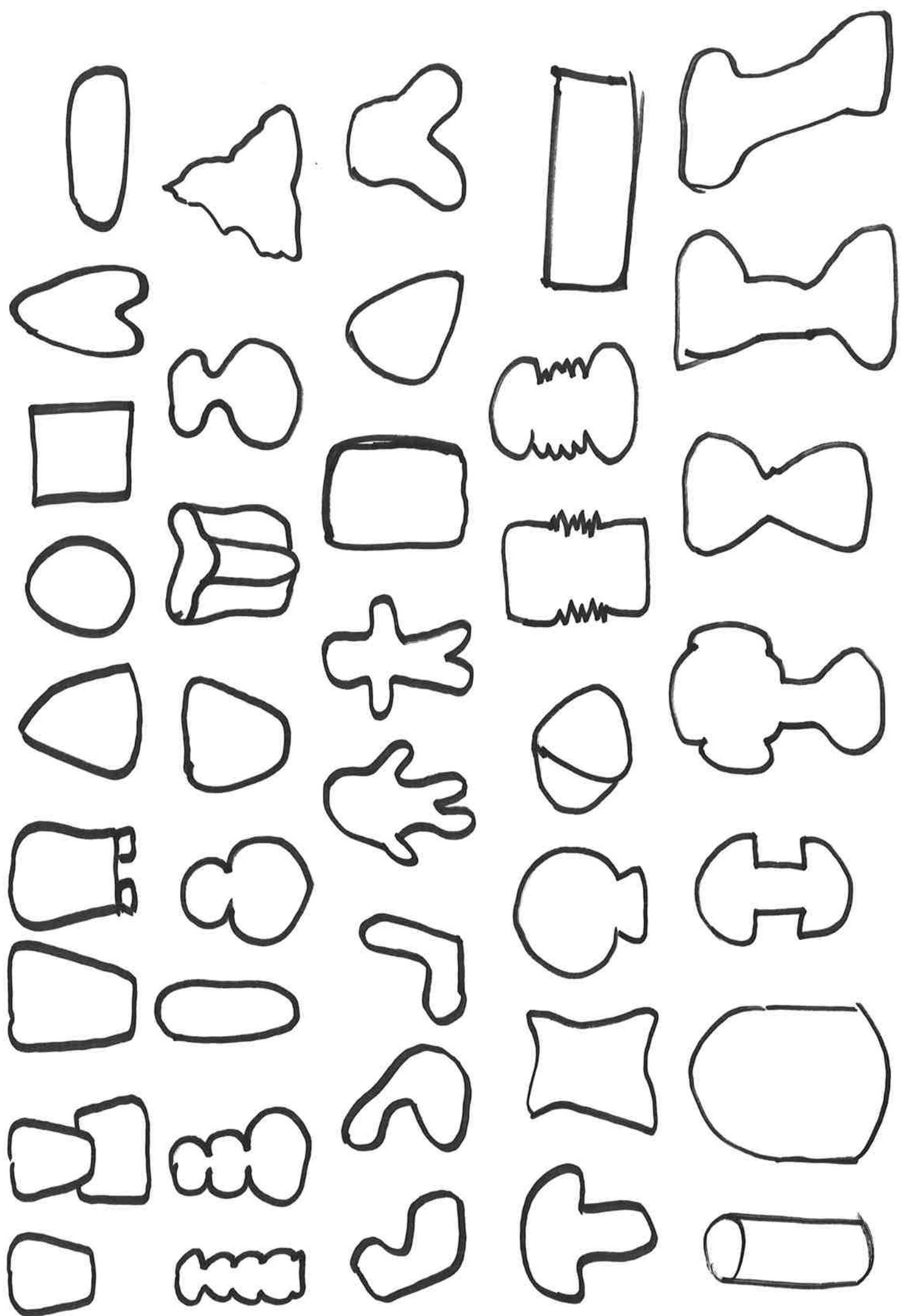
UTTRYKKE →
FØLELSE

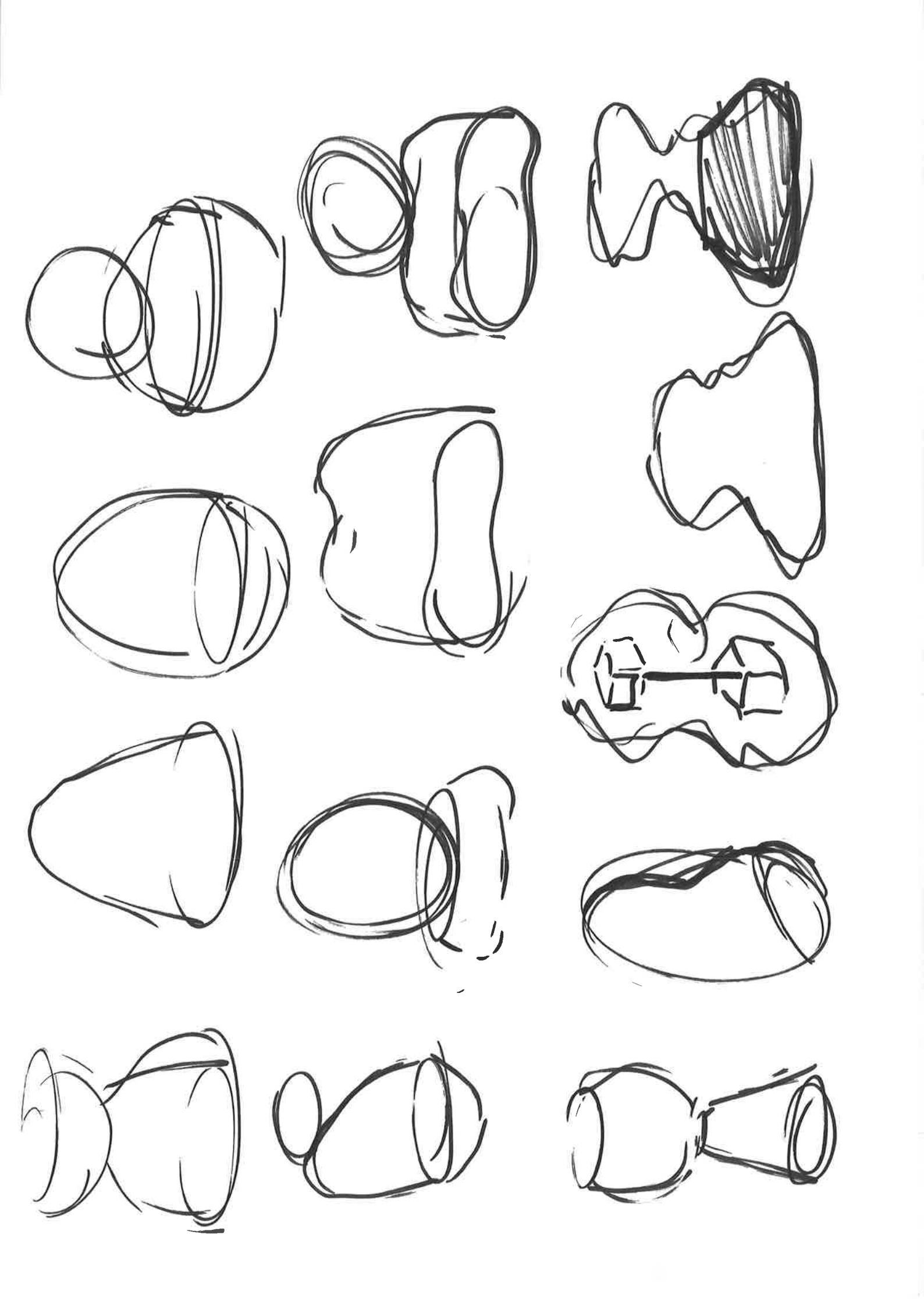
- KJØNN?
Ålder?
Pris?

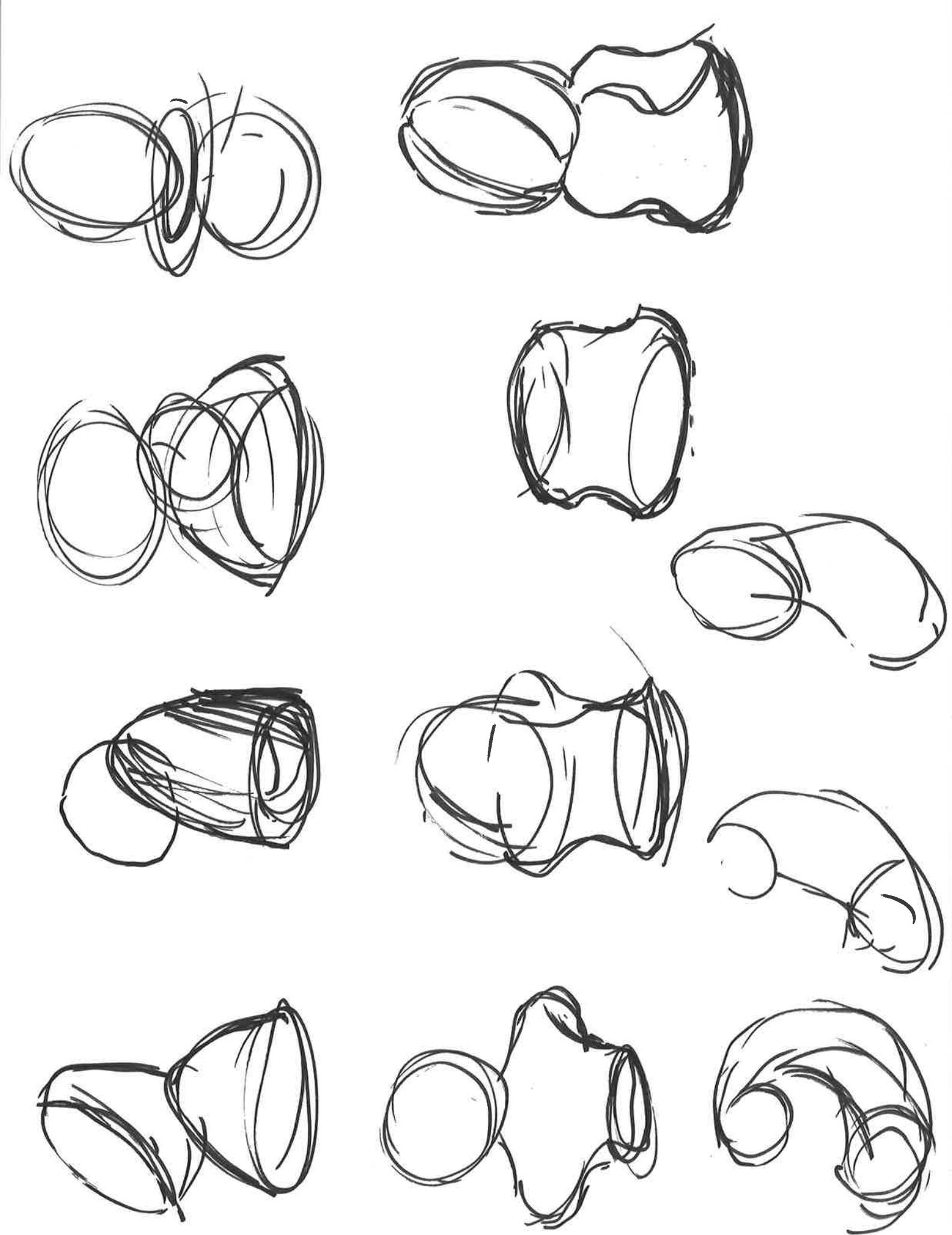
BÆRPÅR
BÆRPORE

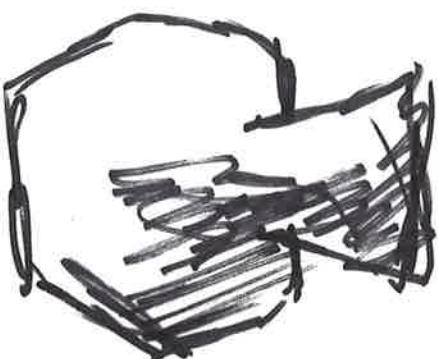
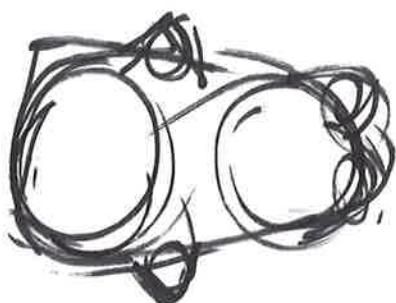
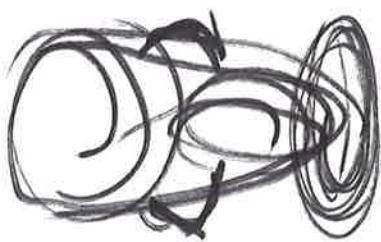
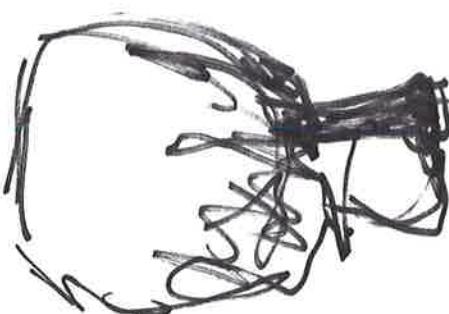
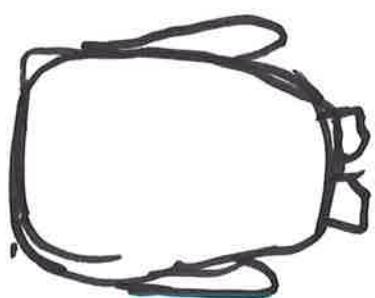
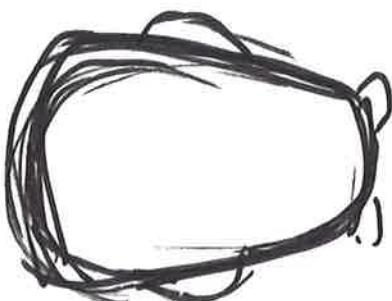
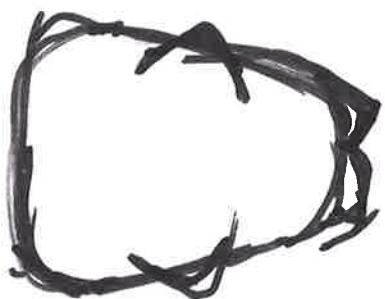
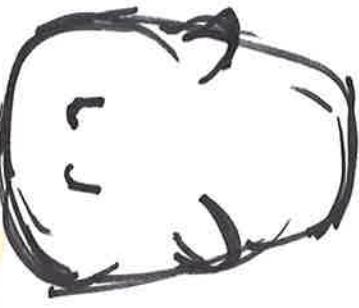


-



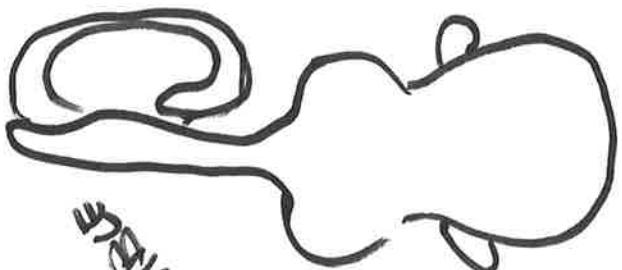
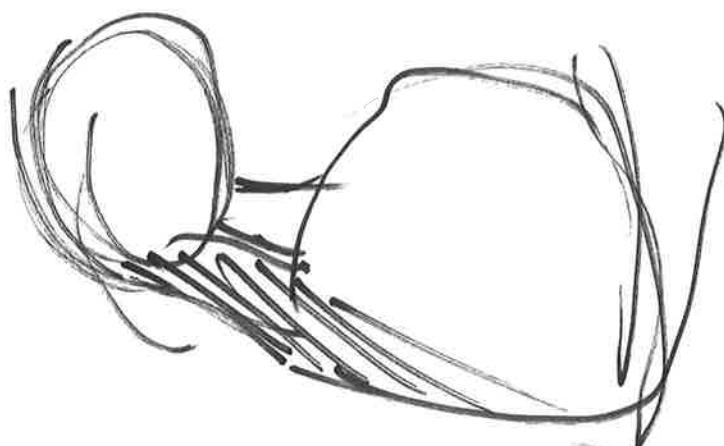
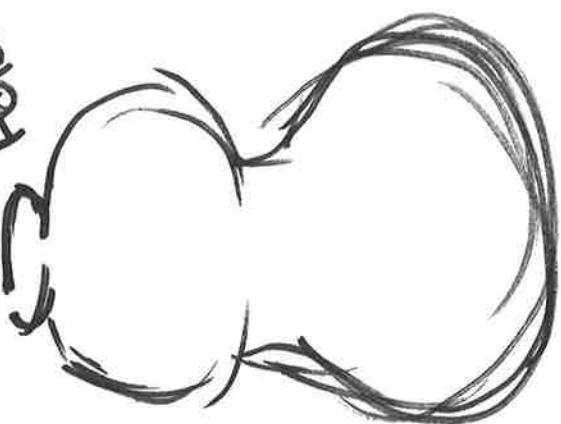




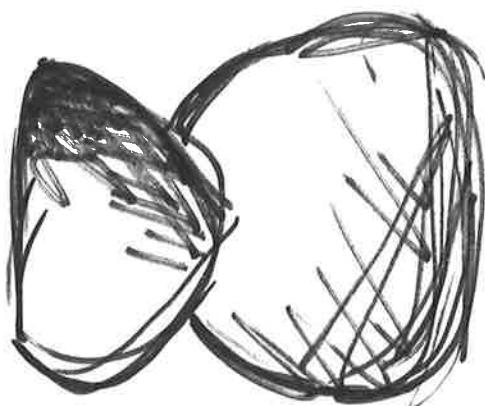
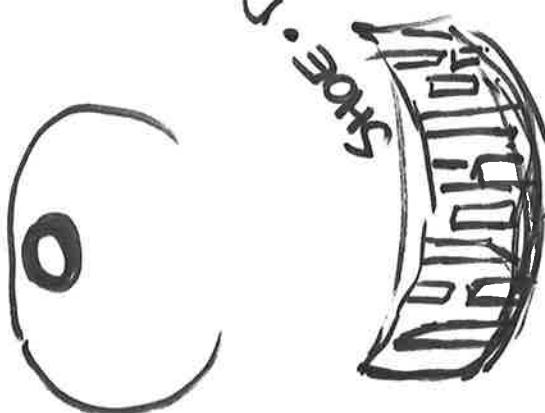


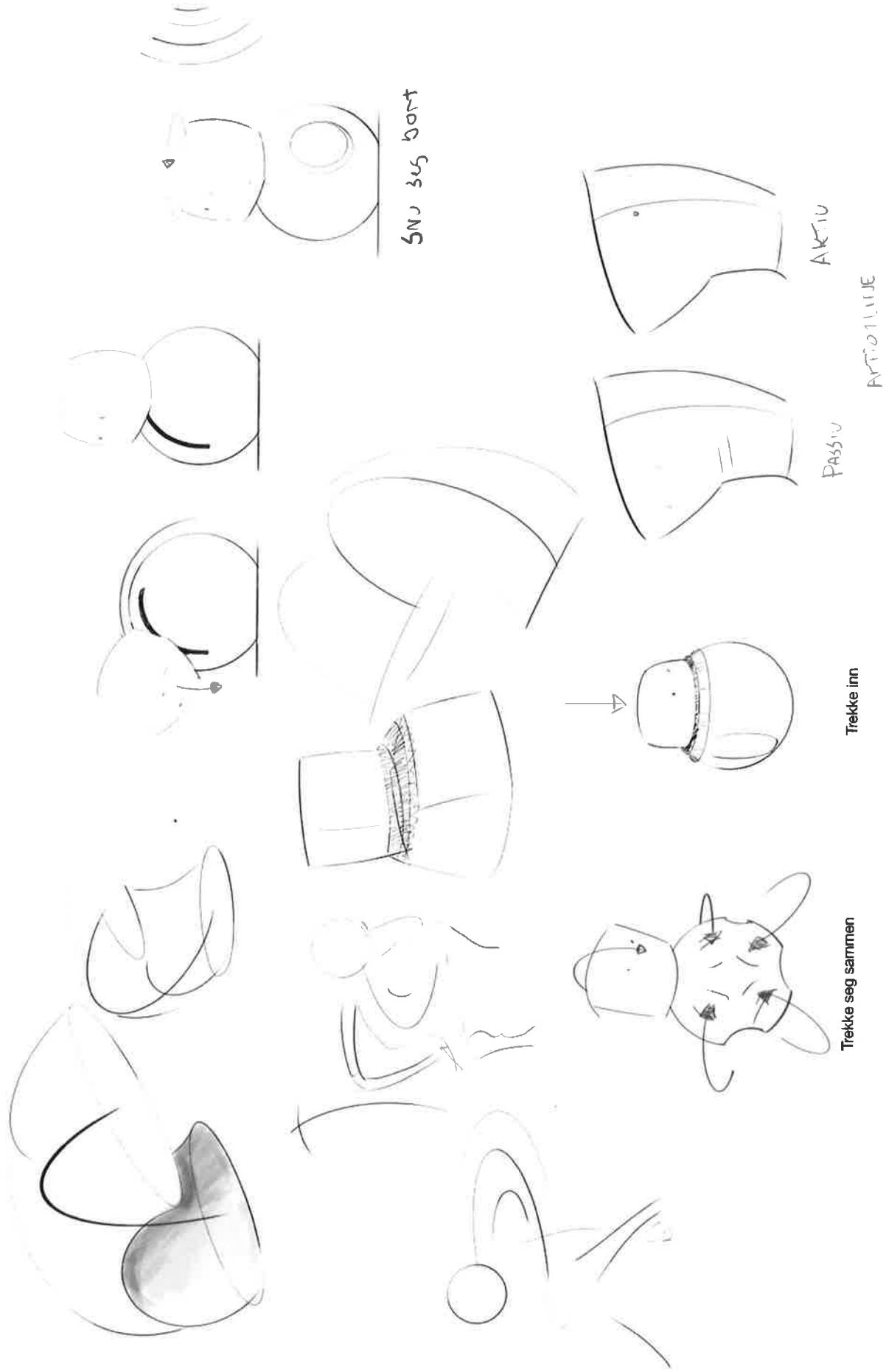


Hold point



shape · outline







"time out"



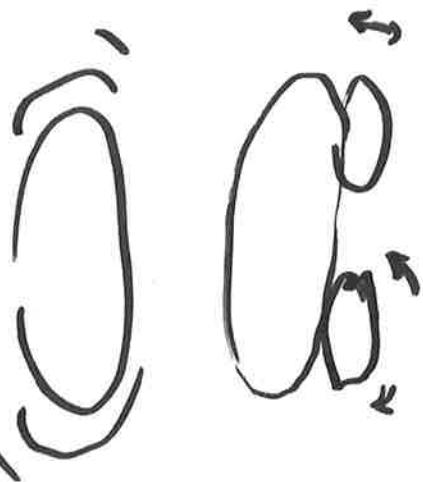
(Soft combined
with clear message.)

soft +
light

'days light'

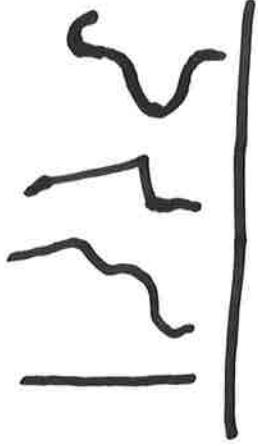
How will you carry it?
GRIPE

Soft motions



movement
'məvəmənt

?



Humdrum life

EMOTIONS - NOT HUMAN
WITHOUT FEELINGS

WHAT IS NEEDED?

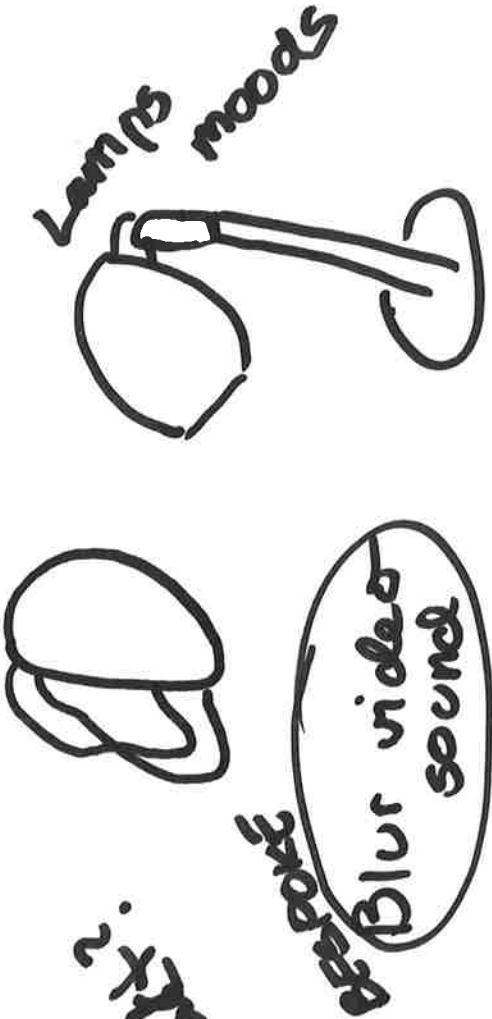
SIZE!
walking

self,
person,

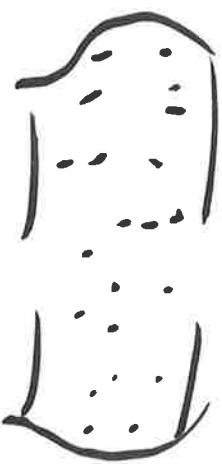
extending
space
and coming
to life
to 100 feet
and getting
up to 1000 feet
and flying
and consuming
and conserving

WHAT EXPRESSIONS DO YOU SEE?

CARRY!?



spreader
wall around



to move?

small feet?

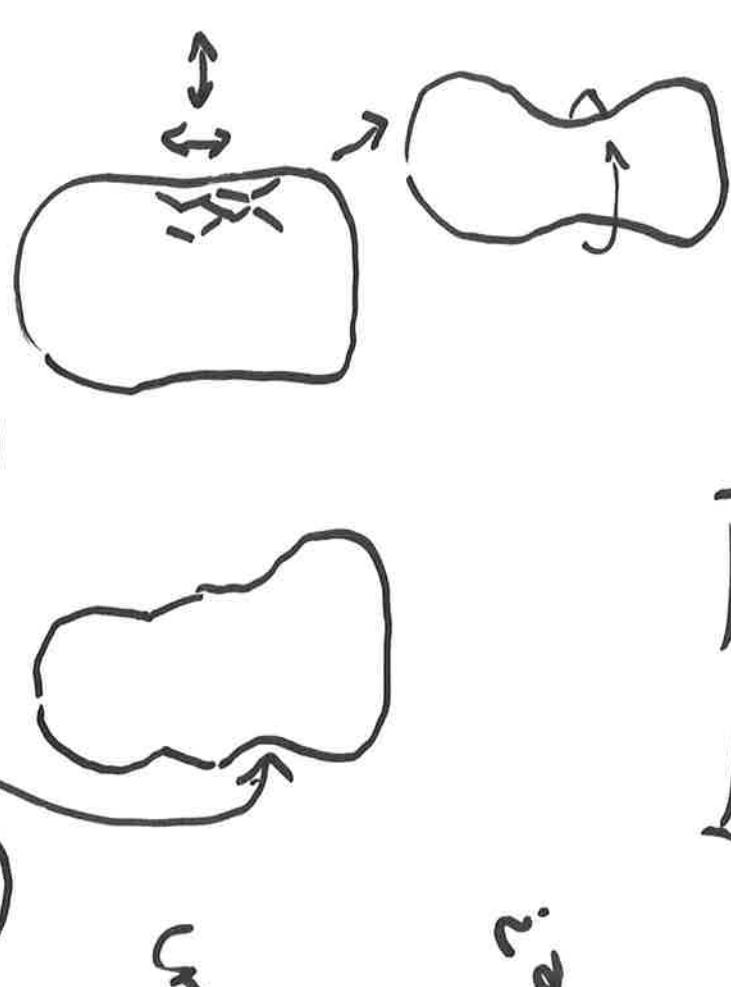
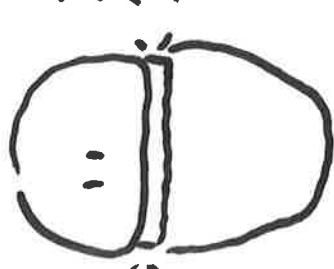
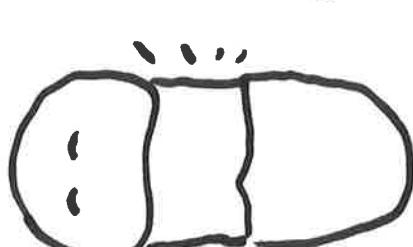


contract
- relax

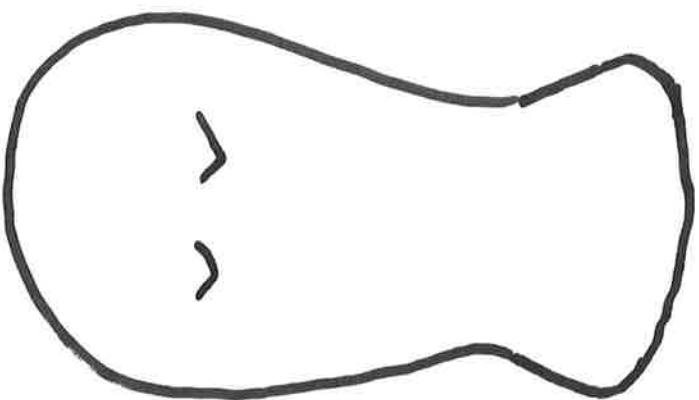
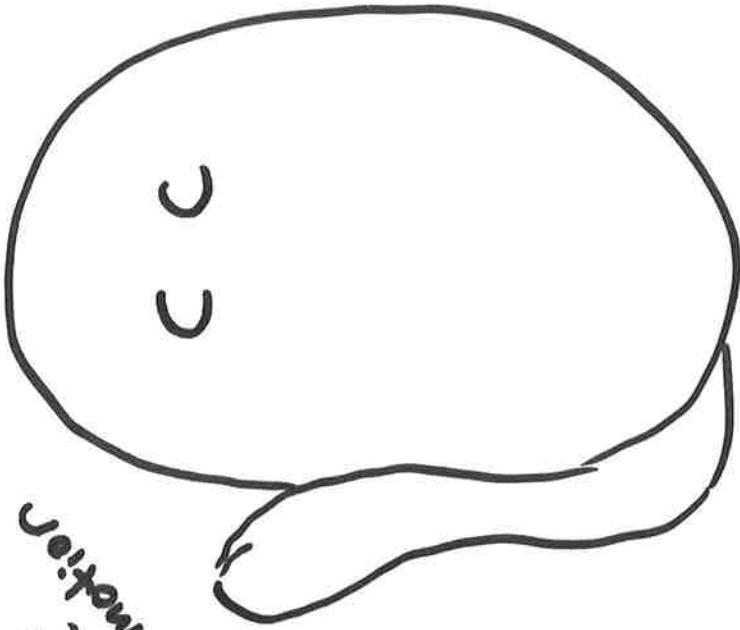
using flat surface?
using shape?



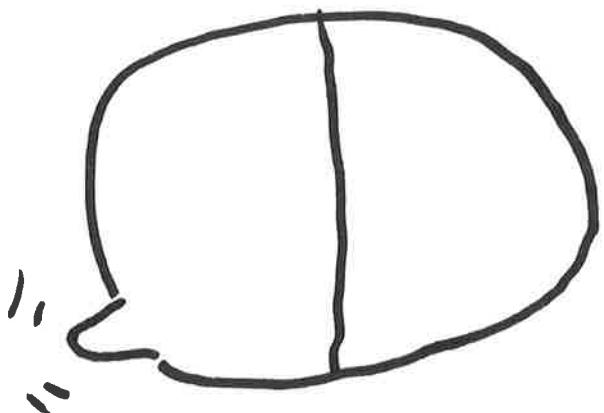
tiny
wavy



Held



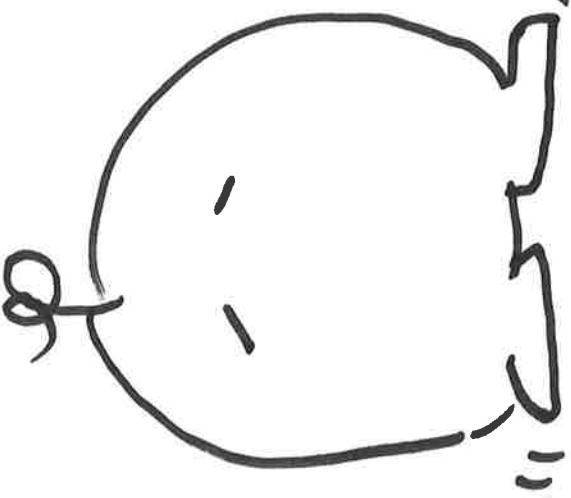
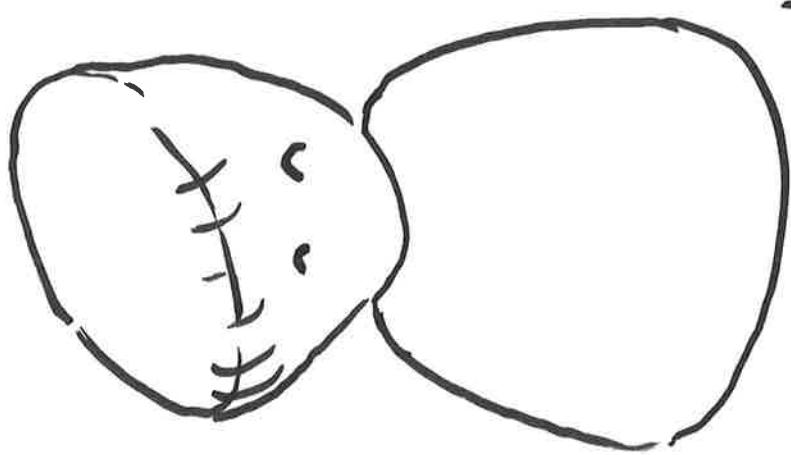
„Sally“
„Peter“

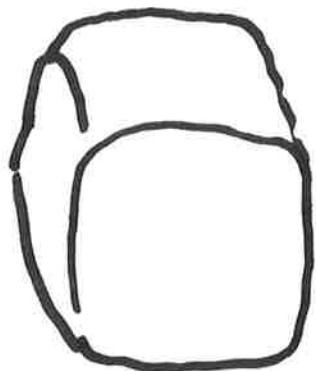
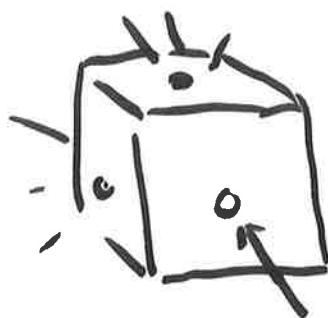
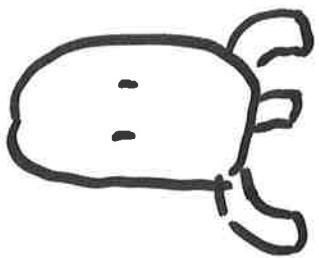
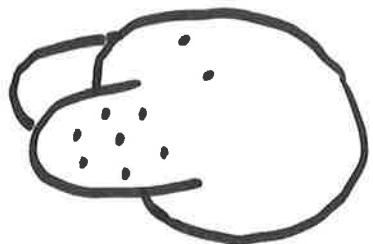
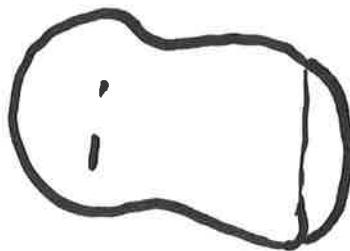
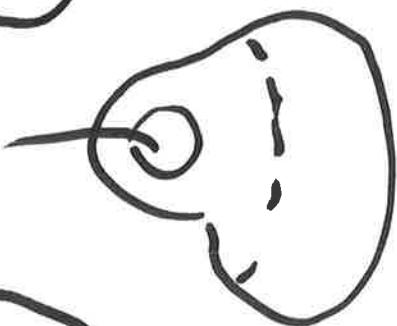
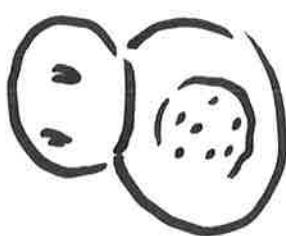
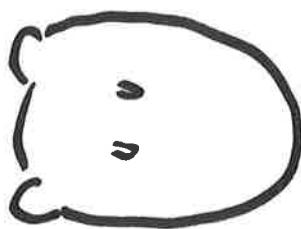
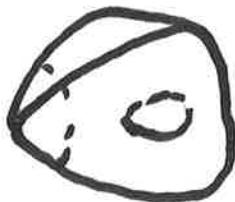
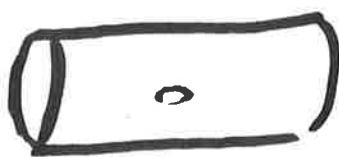
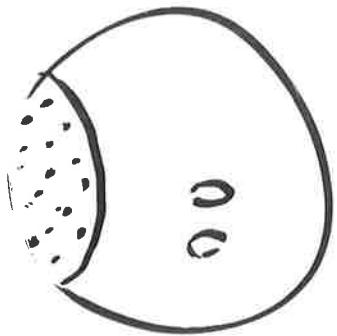


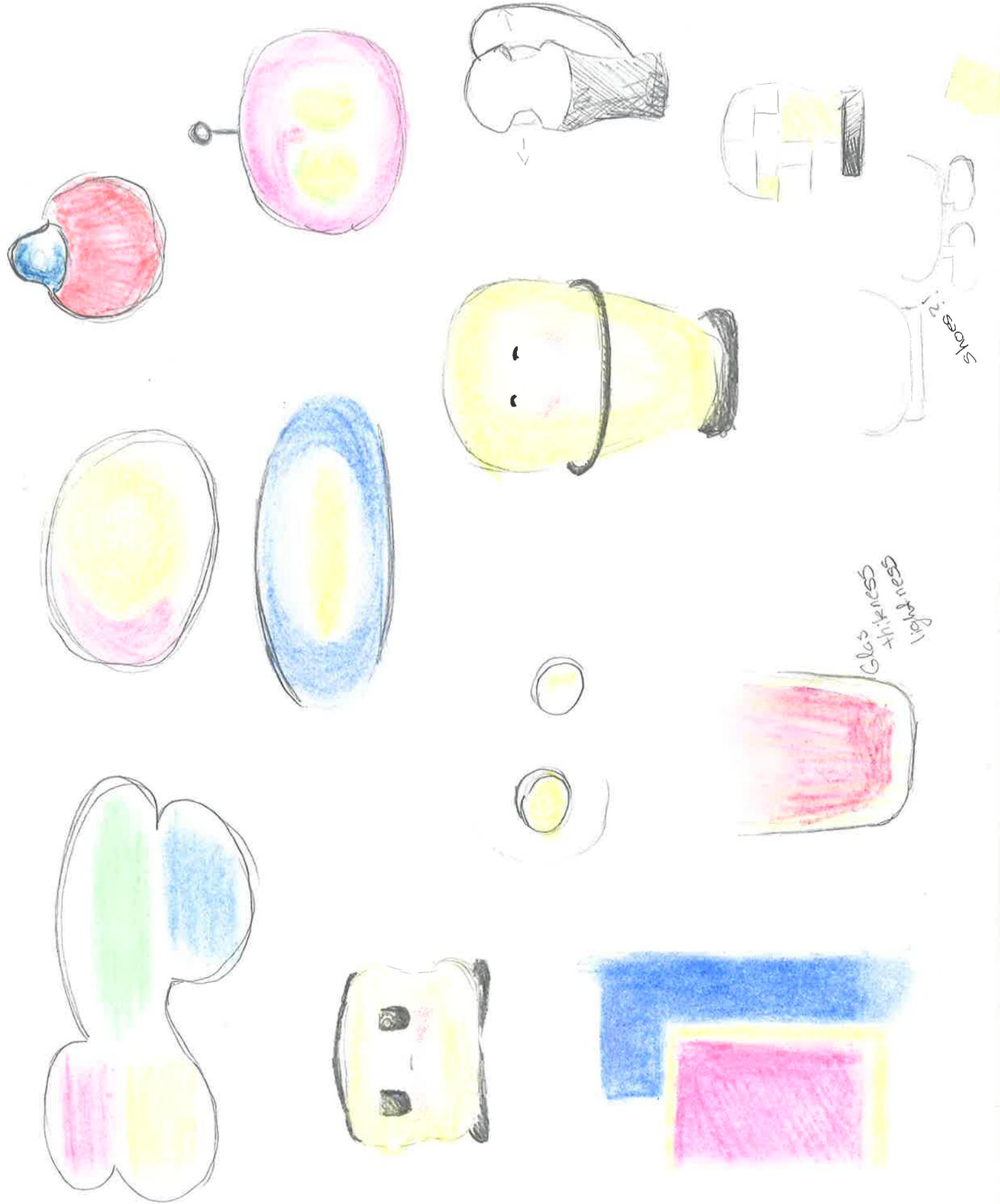
„Sally“
„Peter“

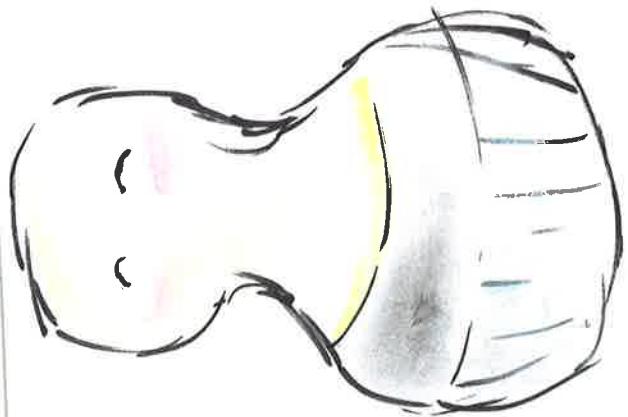
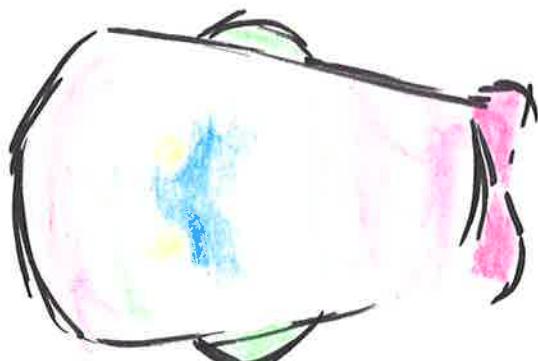
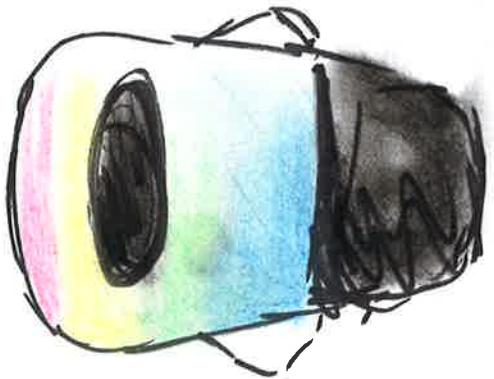
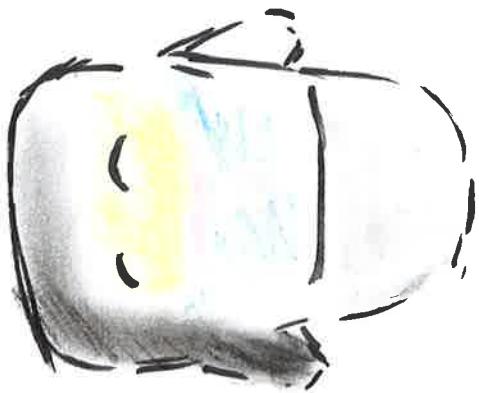
„Lotte“
„Peter“

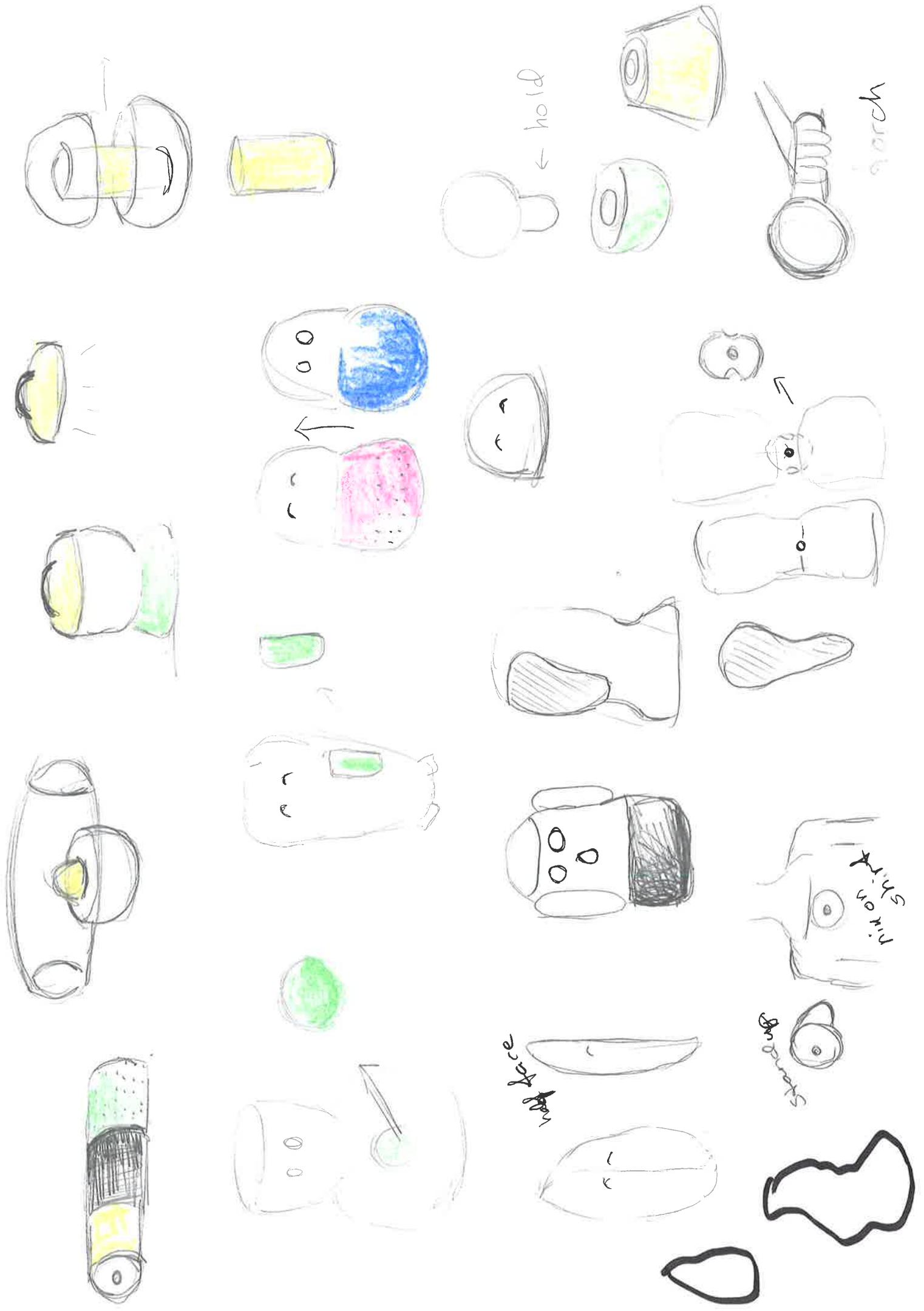
„Lotte“
„Peter“













EARLY CONCEPTS

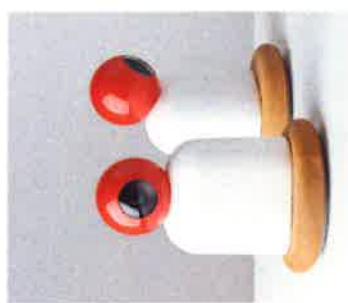
MOOD BOARDS AND SKETCHES

PHASE 1.

TORSO
- relate torso to human emotion



soft and
pliable

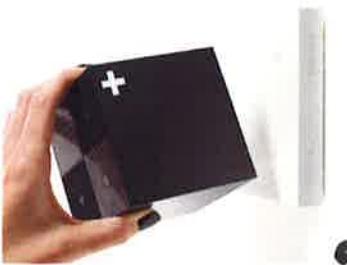


FIGUR



PIECES

- "smaller
+ deeper
+ drop
+ don't want to
+ afraid of
- some
-



"spare
"rotors"

new technologies.
old technologies.
new materials.
old materials.

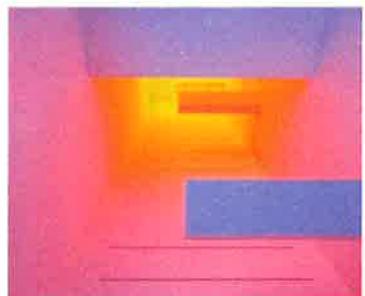
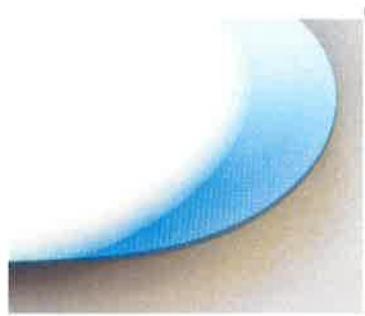
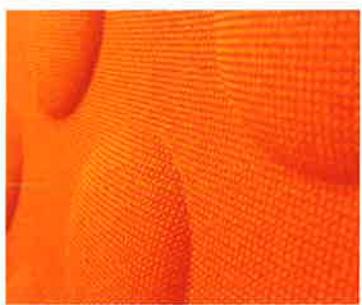


NON FIGUAR

unformular shapes
discrete size
repetitive
representation
representative
first intention



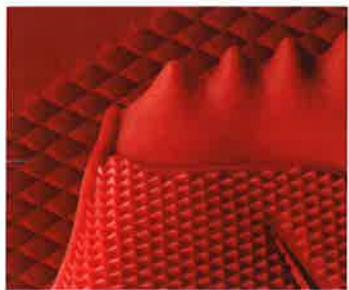
2



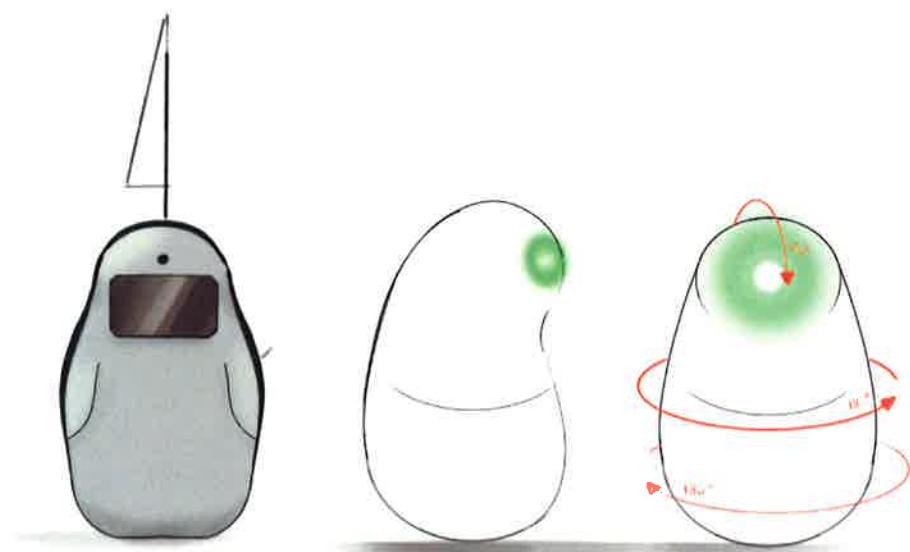
expression

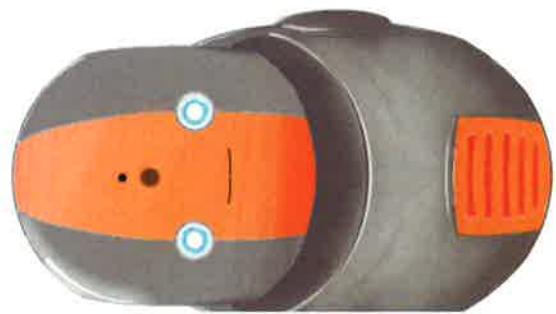
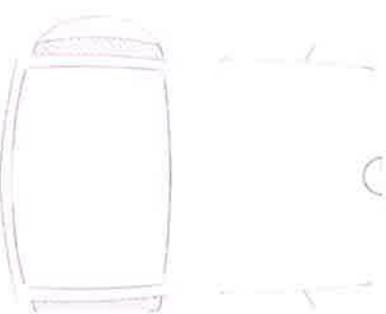
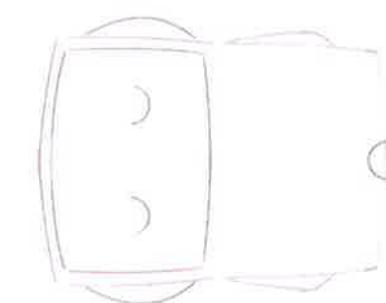
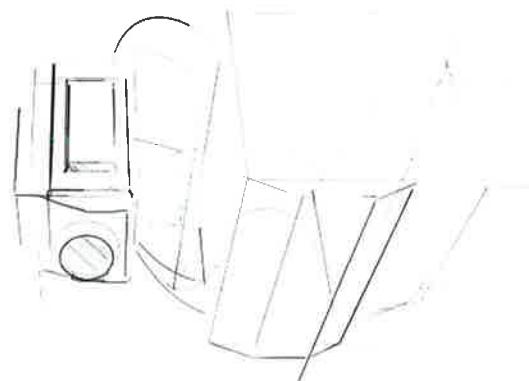
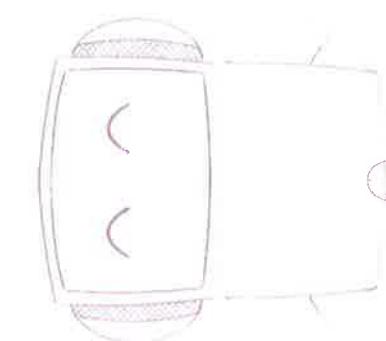
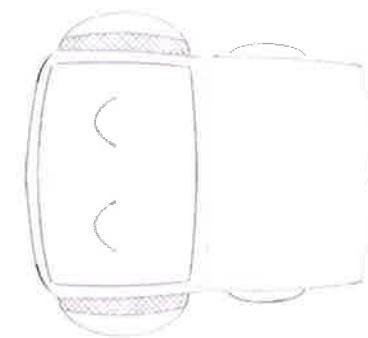
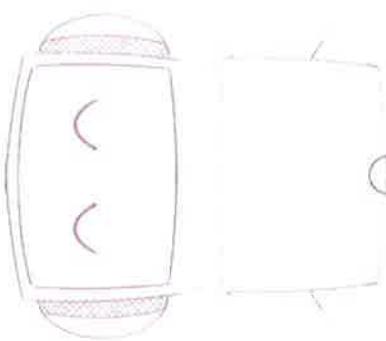
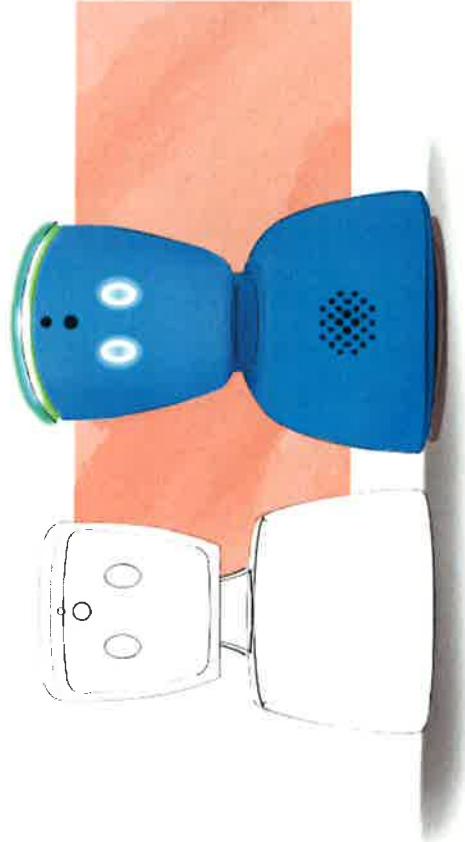
RADICAL

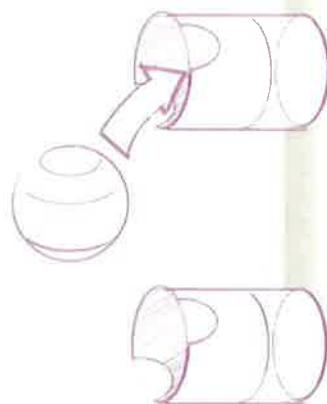
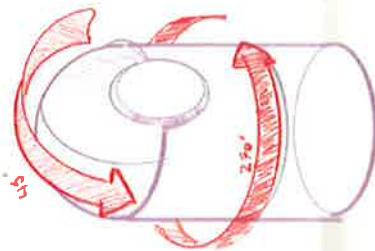
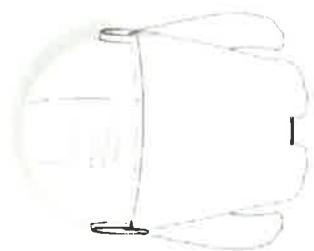
- digital transformation
- external reuse
- material reuse
- control



- expensive
- over done after needs



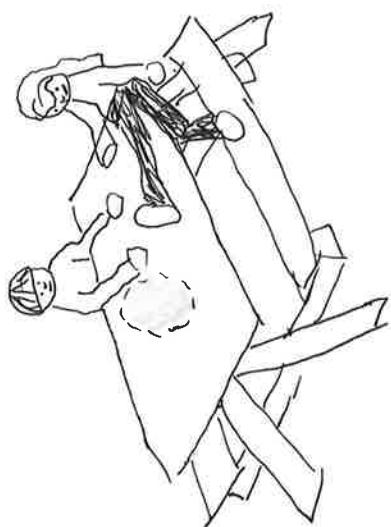
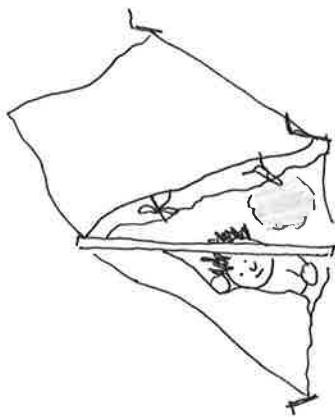
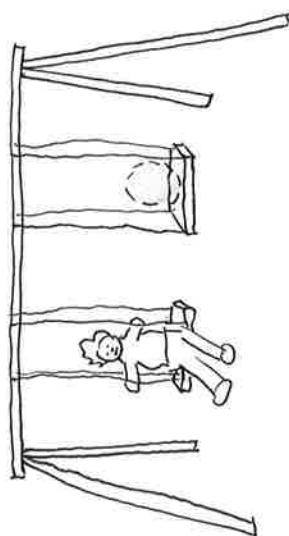




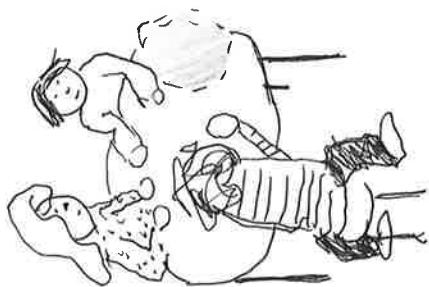
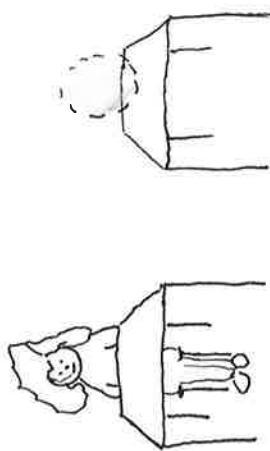
MEETING SCHOOLS

INTERVIEWS AND OBSERVATION NOTES

In social life



In education



7 EMOTIONS

- ENJOYMENT "Bridge between technology and relations"
- DISGUST

"The stronger the emotional connection with the avatars as a representative of the child the better outcomes can be expected from its use in terms of social connections"

• ANGER

"The level of autonomy the user have to define the level of participation in classroom teaching-S"

• SADNESS

"placed: cupboard
not used"

• SURPRISE

"Forgot to charge it"

"hard to see the issue, less easy to take in use"

• NEUTRAL

"Student want to bring it out, not okay it is expensive and we don't want to break it"

"A tote bag to carry it would have been great"

"Fragile - it needs to be handled with care"

"It is missing hands!"

"a bit chunky, so it's different from a phone, they do bring the AVT where they wouldn't bring the person on a phone"

(AV + N1) "mobility - move yourself"

• DISGUST

"The stronger the emotional connection with the avatars as a representative of the child the better outcomes can be expected from its use in terms of social connections"

• FEAR

"(Personality - outgoing 'Humor' Introvert with the avatars as a representative of the child the better outcomes can be expected from its use in terms of social connections"

• ANGER

"Important to show "health" ^{AVT} situation so people ther know how to include how to include

• SADNESS

"placed: cupboard
not used"

• SURPRISE

"Forgot to charge it"

"hard to see the issue, less easy to take in use"

• NEUTRAL

"Student want to bring it out, not okay it is expensive and we don't want to break it"

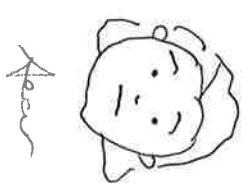
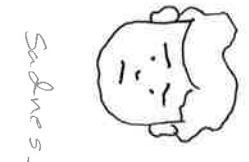
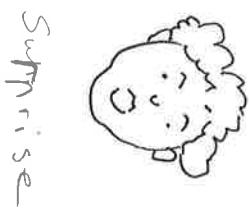
"A tote bag to carry it would have been great"

"Fragile - it needs to be handled with care"

"It is missing hands!"

"The intended use made possible" - Tea

"Technology can shorten the way to get help and lower increase in worsen own health" - Teknoesible HER



Spørsmål 18.01.17

Fra mail: Jeg har akkurat avtalt møte med to lærere i Bærum på torsdag. Ett klokken 10 på Jong skole, og ett klokken 12 på Mølladammen skole. De har begge slitt med å få AV1 til å fungere, så jeg vet ikke hvor mye innsikt vi kommer til å få, men tenker det (for vår del i alle fall) er verdt en prat. Sleng dere gjerne på om dere ønsker.

Bruk:

Hvordan oppmerksomhet tar den? Mye? Lite? Aktiv? Inaktiv?

Hvor mye er den i bruk i løpet av en dag?

Hvordan styrer klassen/du lading og bruk av AV1?

Hvordan er det med om klassen bruker ulike klasserom i løpet av dagen?

Er det med i friminutter?

Ordensmann sirkulasjon på ansvar?

Plassering på egen pult? Kateter? Hylle? Hvor står den?

Elevers tilknytning til den?

Bygges det forhold/bånd til den?

Ser du den (barnet) den representerer?

Hva synes du om utseende? Beskriv den?



Lærers behov:

Noe du ønsker? En påminnelse?

Hvordan ladningen utføres?

- Møllaodammen 19.01.17
- Gammel teknologi AC wifi standard
Veldig svikt for vår eler
- Tekniske støt
Introduksjøen for lærere, nei
ME - eler høyre fra og til 2 år
twice brosser kur
foreldrene kontaktes - om Norskstadion
L poster så mye kraft if: kommunen
L kostnaden over på spredde. - prisne mnd.
Er det formulering? Standardisering
Det gjør ingen nyt NAV - hjelpeorddel
Det gjør lva - hva gjør vi da når flere strenger"
Face Time - funker ikke; det hele skift
Må være på hele siden!!
AV1 bra eler sterkt på, da synes det.
Ikke synet en på pult i klasse rom, "Ikke kona dur"
- kanskje en naturlig 'ansvar' for venner. men kanskje
ikke.
- selvskjønne velger our aktive timer? ikke flyttes
fra ulike rom. men ingen redskjønner.
"uknøkke seg organisk" skritt: Det små.
individuelle situasjoner - sykdommer.
all passer ikke til alt og alle"
- kunne haunet hos fiel pers. "sy rufer under
armene".
- deknede løsning og idee på plass.
- "Siden": veldig upersonlig "formuen"
- nimp
- hauneløp - personalisering
- lange - skal den være like?
- kan gå ut til kult uleie.
2 mnd. seie KKE aktuell - fort mye admin!

Spørsmål 18.01.17

Fra mail: Jeg har akkurat avtalt møte med to lærere i Bærum på torsdag. Et klokken 10 på Jong skole, og ett klokken 12 på Mølladammen skole. De har begge slitt med å få AV1 til å fungere, så jeg vet ikke hvor mye innsikt vi kommer til å få, men tenker det (for vår del i alle fall) er verdt en prat. Seng dere gjerne på om dere ønsker.

Bruk:

- Hvordan oppmerksomhet tar den? Mye? Lite? Aktiv? Inaktiv?
- ✓ Hvor mye er den i bruk i løpet av en dag?
- Hvordan styrer klassen/du lading og bruk av AV1?
- ✓ Hvordan er det med om klassen bruker ulike klasserom i løpet av dagen?
- ✓ Er det med i friminutter?
- ✓ Ordensmann sirkulasjon på ansvar?
- ✓ Plassering på egen pult? Kateter? Hylle? Hvor står den?

- ✓ Elevers tilknytning til den?
- ✓ Bygges det forhold/bånd til den?

Ser du den (barnet) den representerer?

Hva synes du om utseende? Beskriv den?

Lærers behov:

- ✓ Noe du ønsker? En påminnelse?
- ✓ Hvordan ladningen utføres?

JONG SKOLE 19.01.17

Først ut med A1

fra 3 kl. - 7 kl.

Ørting 4G

Hallingdal

1 dag på leirskole = oppløftende
eneste gang den kunne bli bruke

- Skolen bidaler selv sagt

NAV

- Krav på hjemmeundervisning - gira på AV1

- Padrive AV1

- liten fordel

- enkel å bruke for lærere

- kunne se seg

- laminerte informasjon til lærere
om hel bruker manual

ELEVER RUSELØKICA

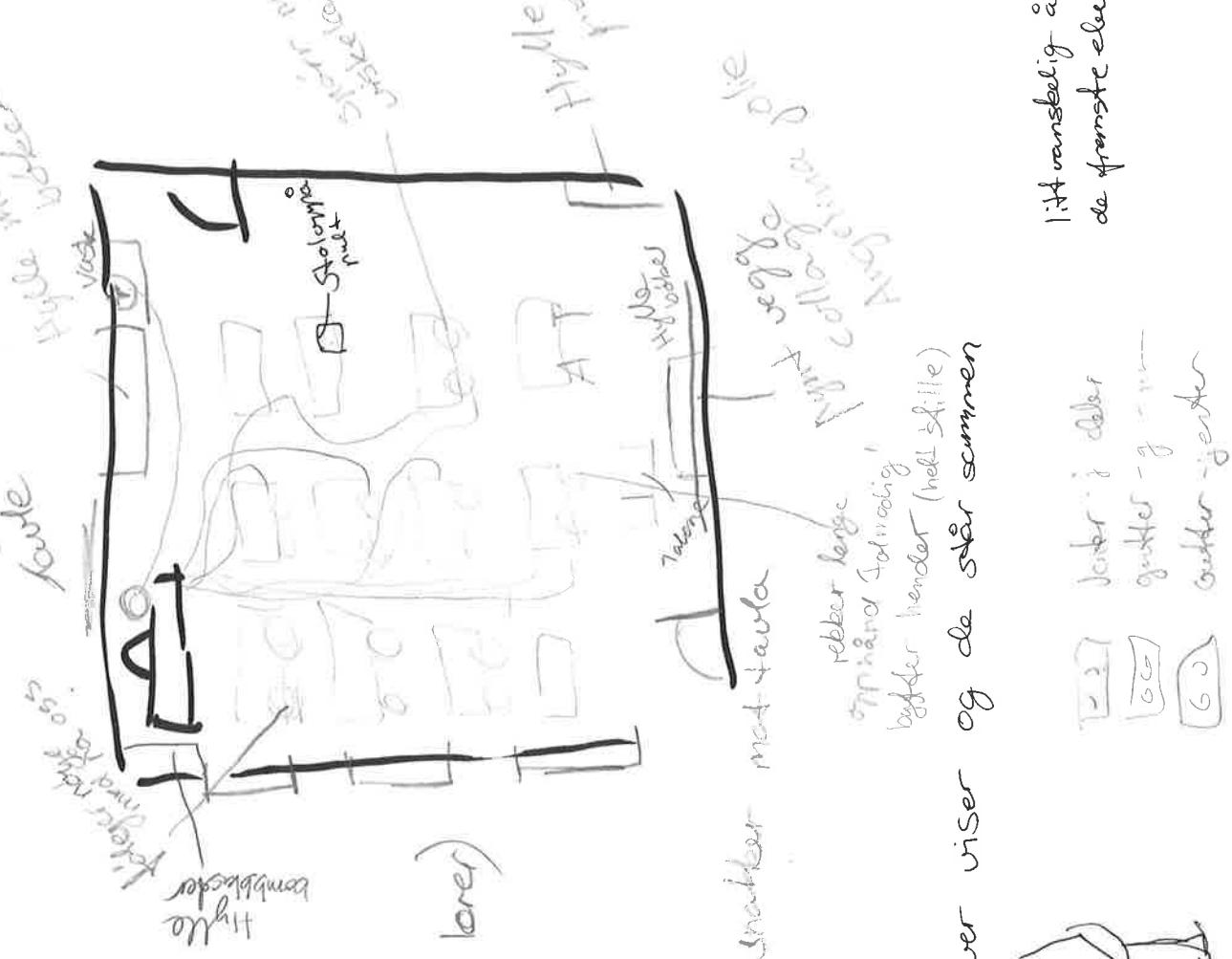
SITUASJON → RESPONSBLÆSER VAGON

Sammenset

- trenger utstyr - spør om hjelp
- spørsmål om øvrig - viser i bok

- Lærings partner

- Rekke opp håd - til lærers nærm



- Finner på stort - (skriver stort nede lærer)

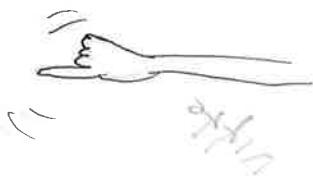
- Lærer hunder nærm før å snakke til elever.

- Svare 'resonering' til sinne - nærm og snakke mot tavla

- peker i bok.

- trenger vigsler, hører hender.

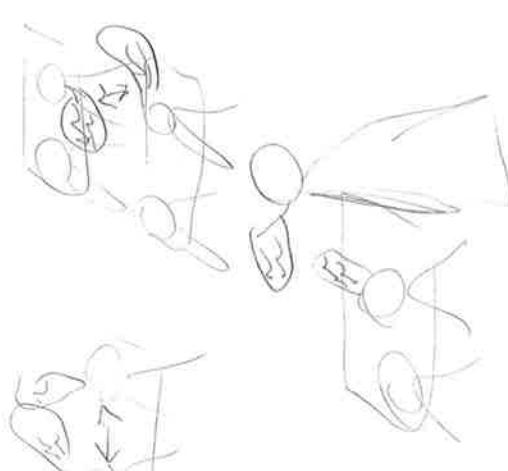
- Individarbeid - lærer går rundt, elever viser og de skår sammen og ser i bok



litt vanskelig å høre
de fremste elevene

Joker i class
gutter - g - m -
ord er igjen

60
61

- Det er næste visning: bok!
 - Diskusjon rundt omgåsten.
 - Elever har med lærer for å vise om lærer er oppmuntret
- 
- 
- 
- "Svar rundt" - når til elever - hvor er svaret
skriver på tavla
- Spising elever kommer tilbake fra spising
- ordens elever henter melk.
- elever flykter seg rundt "dere skal sitte på egne plasser" lærer
 - Bursdagsbarn 'pen sang' for både! lærer varmer om eleven full sang med levergjelse!!
 - Info om gym - de som ikke har gitt og ikke må endre
 - Skal gi ut 2 og 2 i volleyball

ELEVER RUDEL ØKKÅA

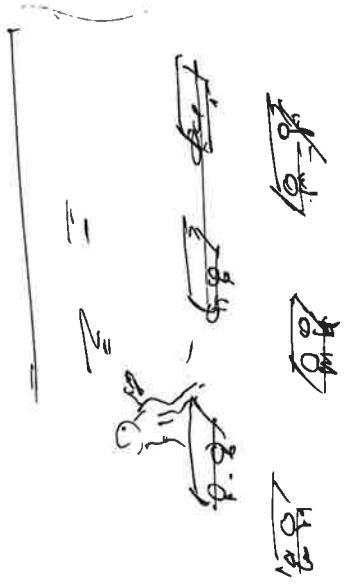
Nattetime

SITUASJON → RESPONS / OBSERVASJON



To og to jobbet sammen
Læringspartner

Var spartakring sammen om
oppgave. Diskusjon



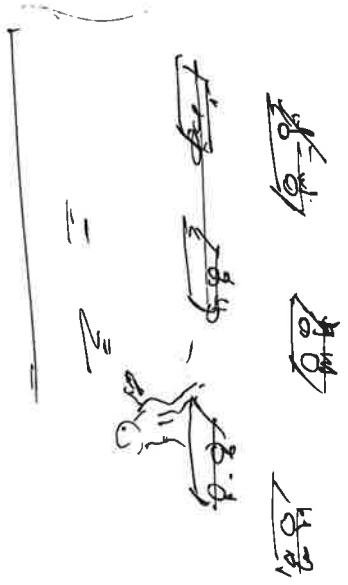
Lærer operer en og en gruppe
Innombest de har foretatt oppgaven.

Elever spørst hverandre.

Resoneringssoppgavet. Sammendordning
Sammenheng mellom grupper for

kripper for å få læringen merksomhet
Lærer er litt merksom på elevers "bekräfting"
Lærer med sjetting.

Lærer står over og oppmerksomste elever
Nå gikk ses sjennom. Det var godt i
veileder underveis ved håndoppmerking -



Lærer operer en og en gruppe
Innombest de har foretatt oppgaven.

Elever spørst hverandre.

Resoneringssoppgavet. Sammendordning
Sammenheng mellom grupper for

kripper for å få læringen merksomhet
Lærer er litt merksom på elevers "bekräfting"

Lærer med sjetting.

"Lærerstyrst"

- mer foredrag

- Heltberg jobber der 100%

- Akademiet 36 timer i mnd

- elektronisk tavle 'lyset av'

- På pult: data, bok, redbull,
mobil, veske, headphones
notatbok.

L: snakker til elever,
ser ofte per. til per
for å inkludere

- stiller spør
ang. ting hun
viser på tavle

- veksling av blikk

- Samtale mellom lærer-elev - blikkveksling, spørsmål
lærer tar ansvaret for samtale fra elever.
Innpus

"Sier navn og spør" veileder til rødt svar.

Kommunikasjon lærer-elev, elev → lærer
Idéer noe mellom elever.

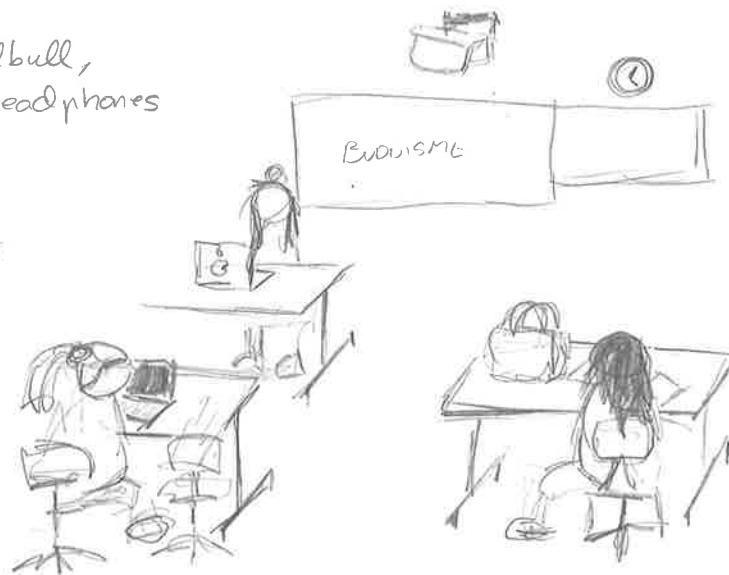
Lærer: "Tea henger du med?"

29. Mars

Lektor-Gine

student:

fagdager tidligere
vgs. 1 dag 2 fag!



CONCEPT DEVELOPMENT

**SKETCHES
PHASE 2.**

Attention - Mood

INFO:

* Passive - Light (rhythm-color)
Movement

* 'HAND UP' - I WANT TO SPEAK

- Light - intensity
color
rhythm

- Movement: 'hand' up

body move

- Sound: OUF - REPEAT?

- CHANGE FIGURE



* Co-work

- Nation - follow group ↗

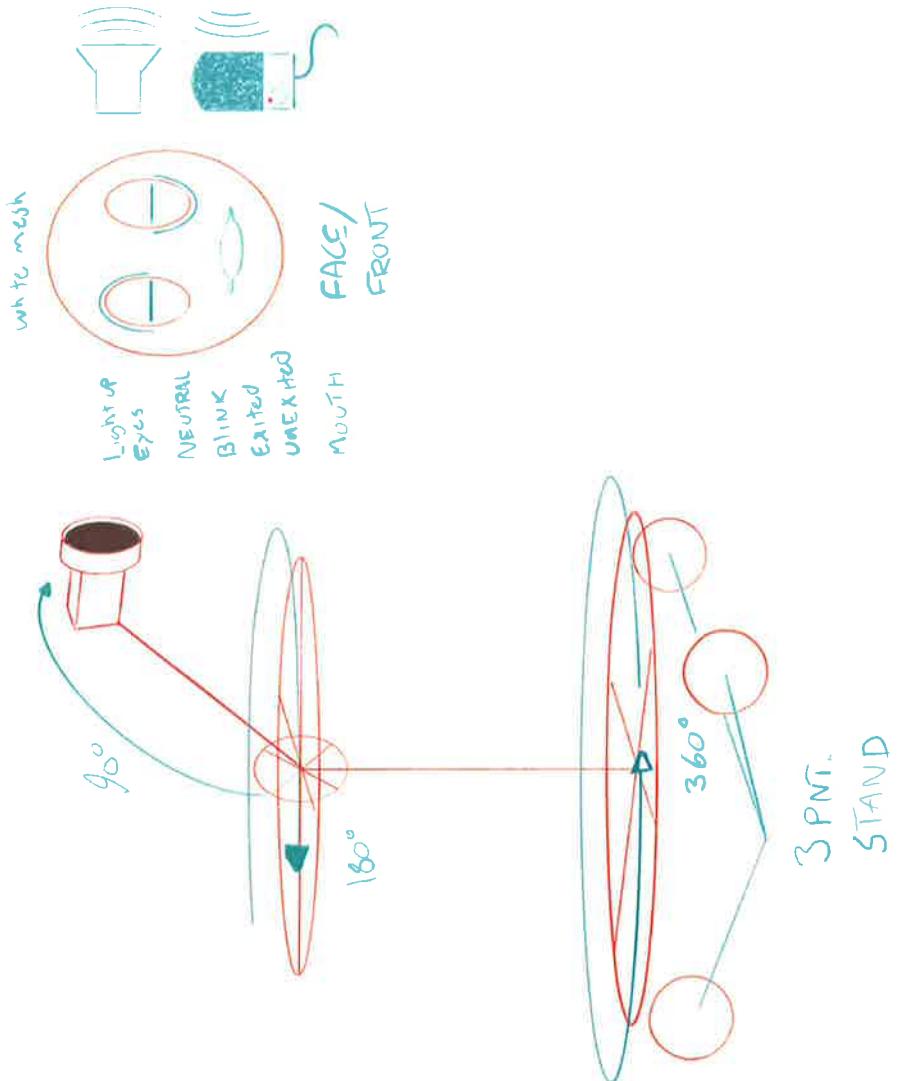
- Move parts ↘



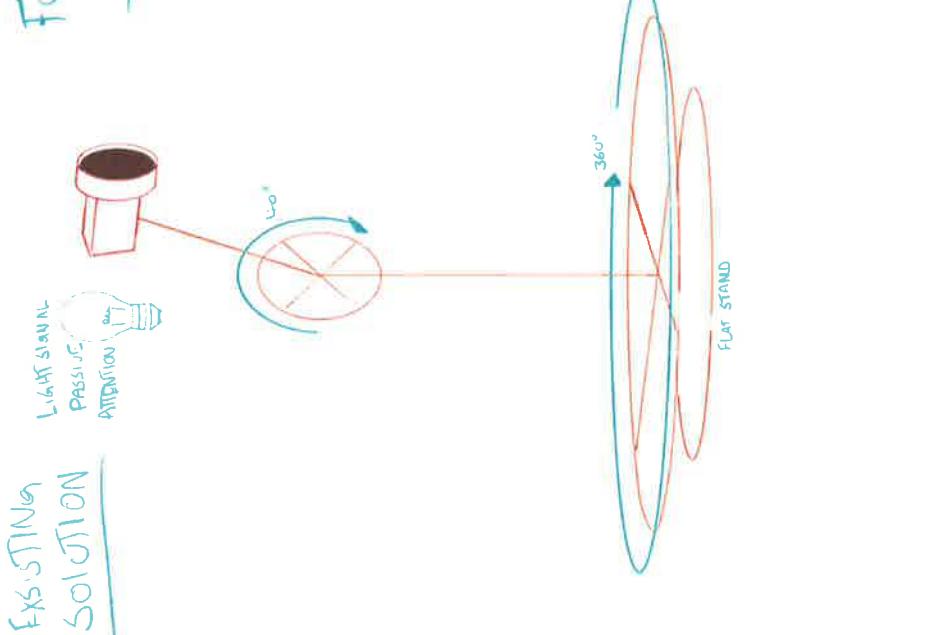
BATTERY: icon
WIFI: light intensity
NEUTRAL: sound moment
Mood status read....

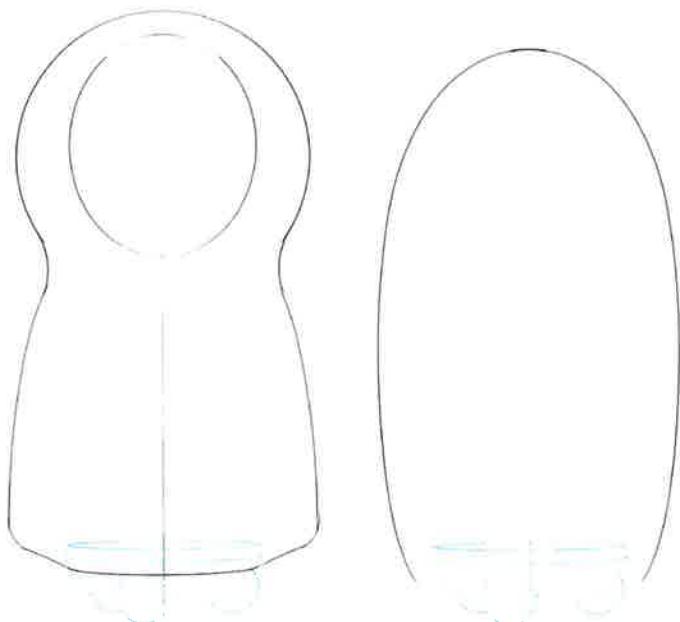
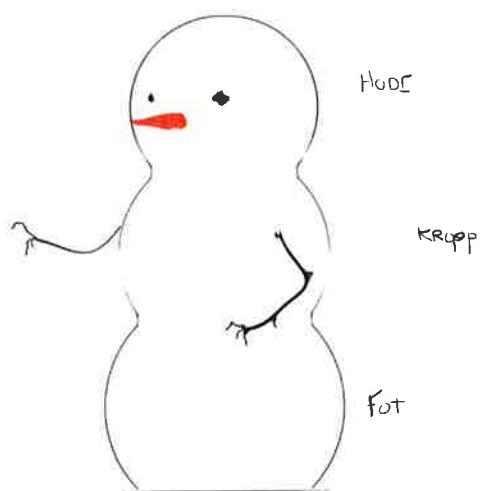
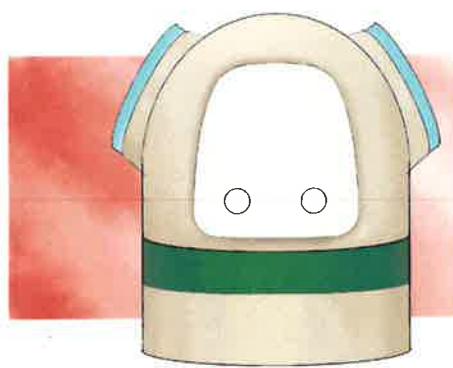
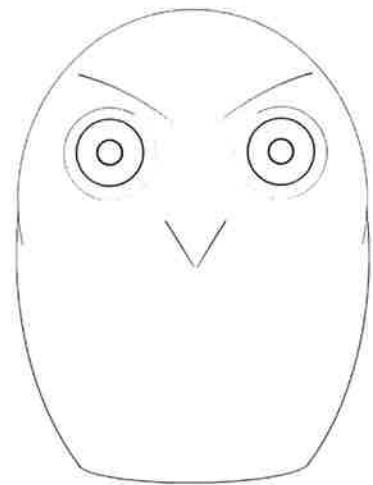
- Kauvi lese: glad
trist
overrest ket
....

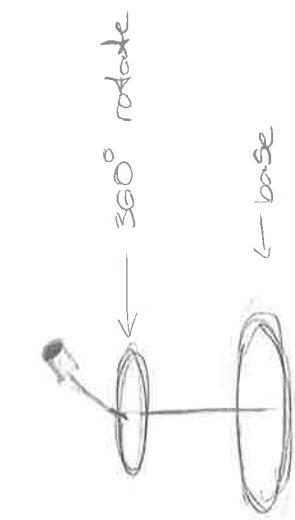
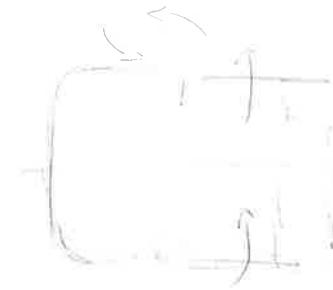
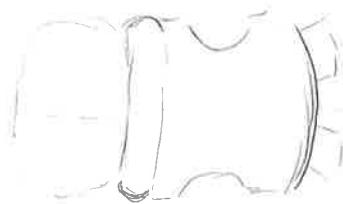
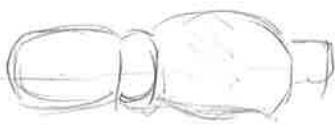
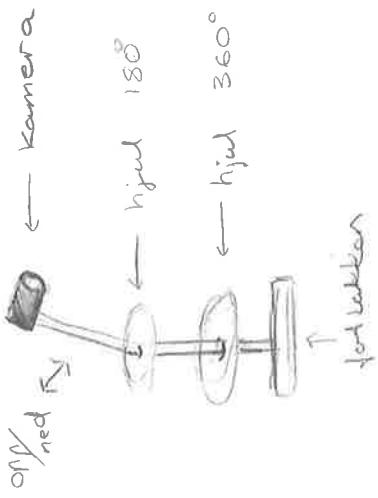
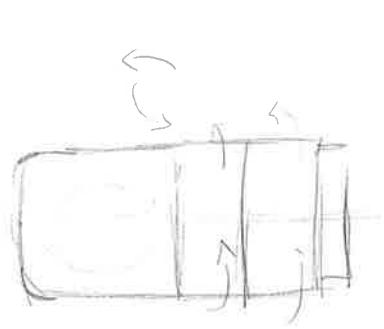
ENGGEL



FUNKEJS SKLISSE





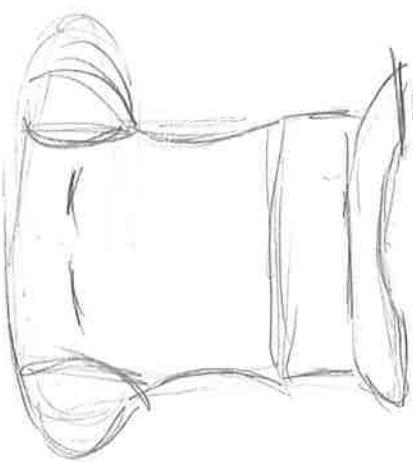
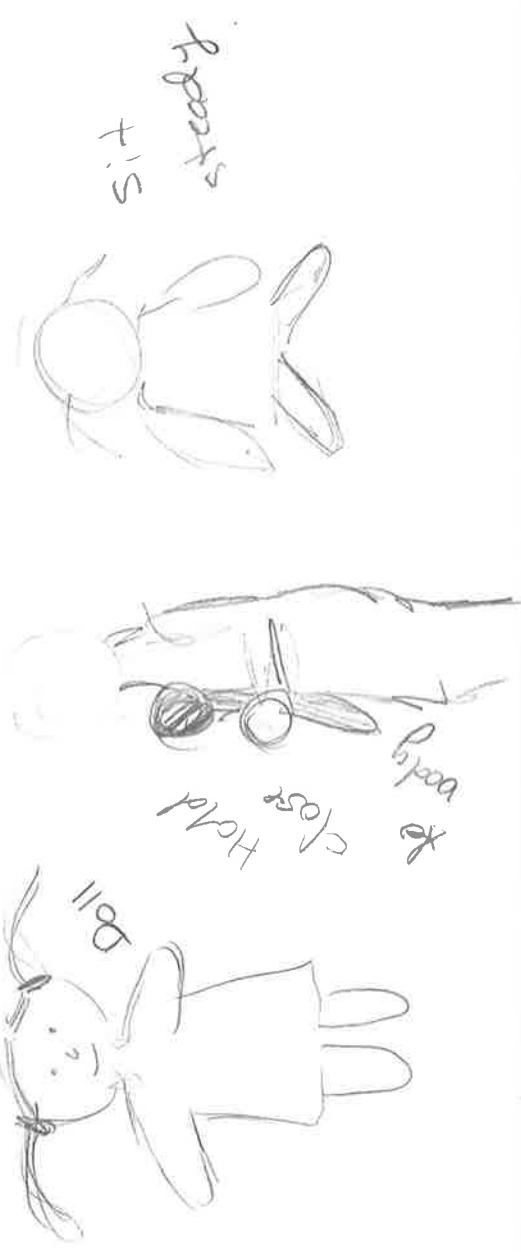


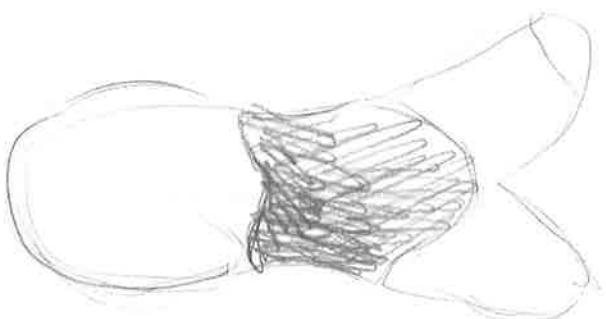
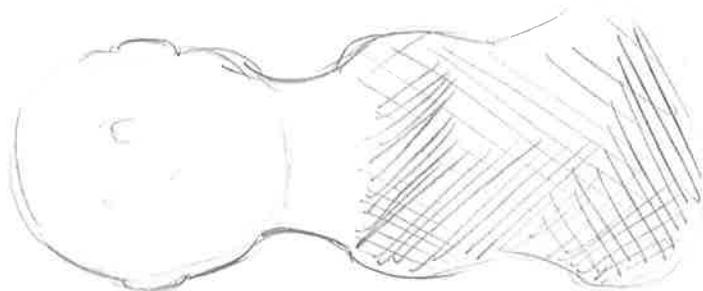
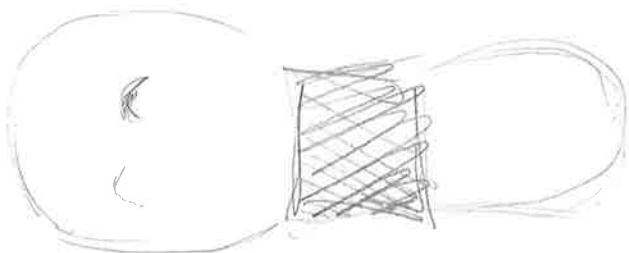
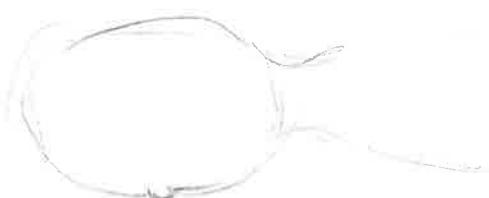
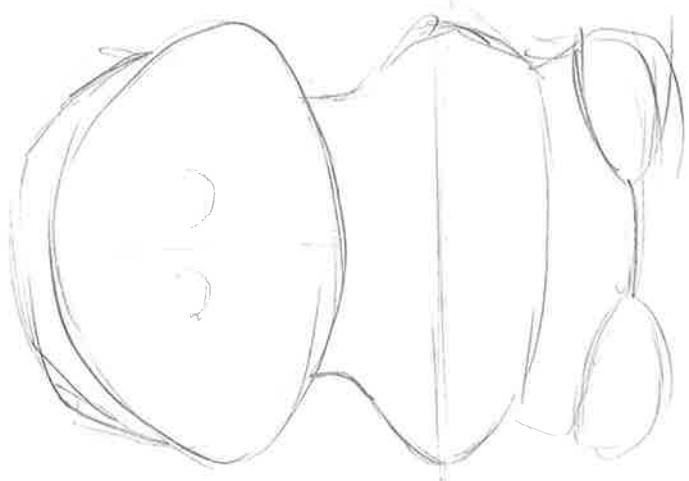
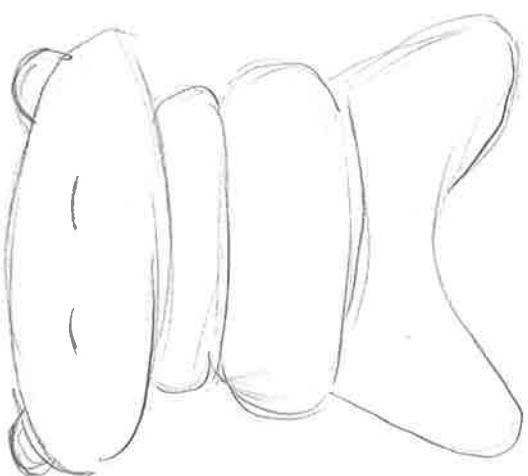
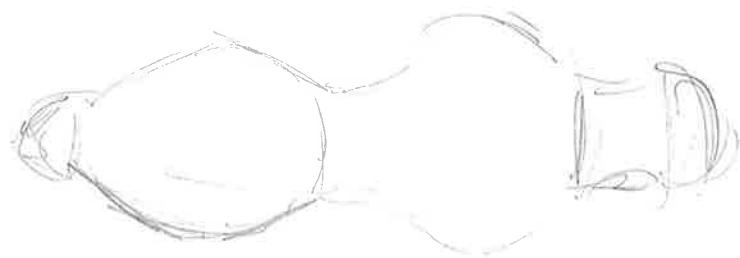
view point
- look up and down
twist 180° / 360°
body to hold

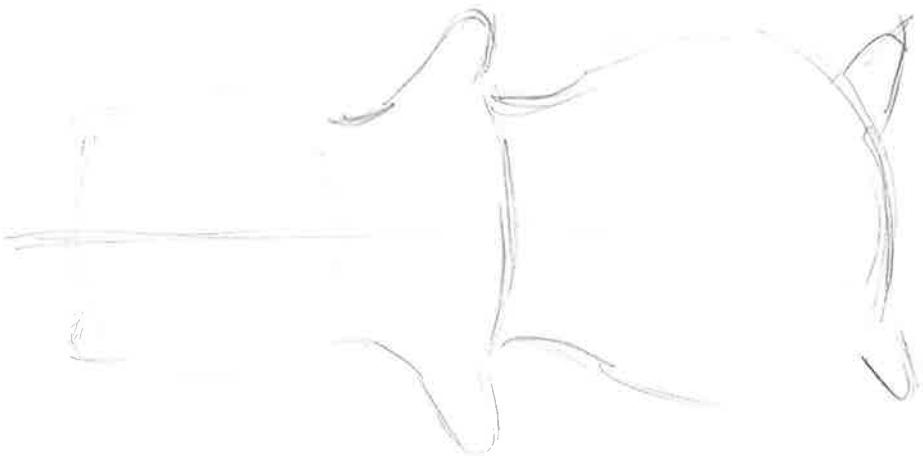
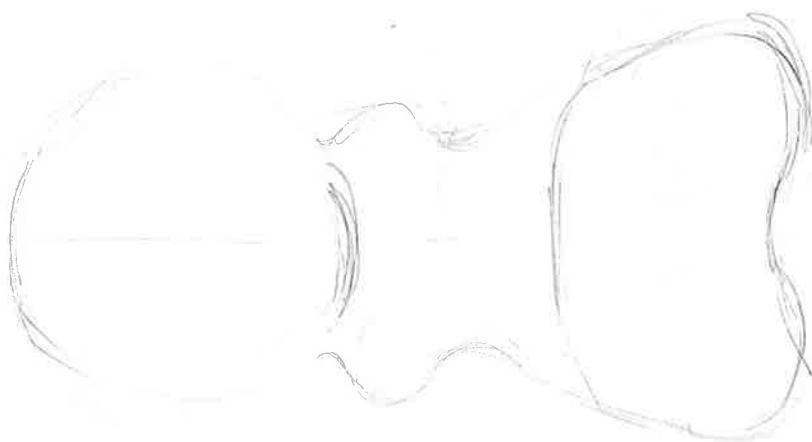
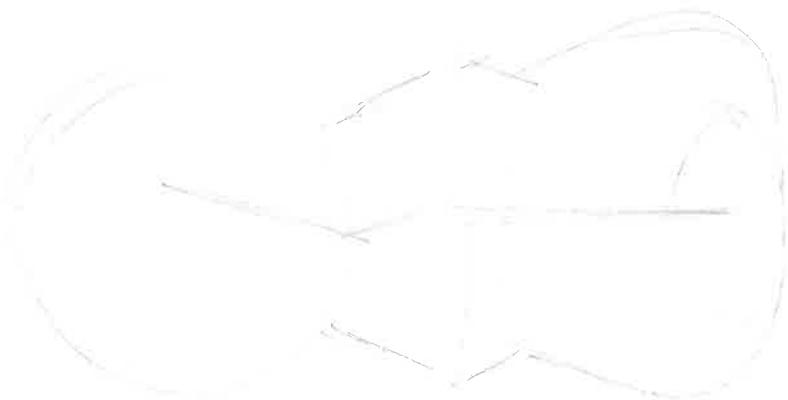
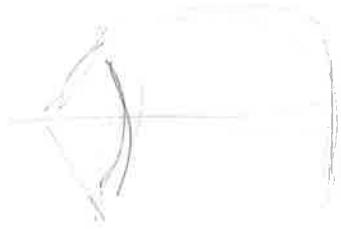
Front
Face
point of reference
rotation
bend

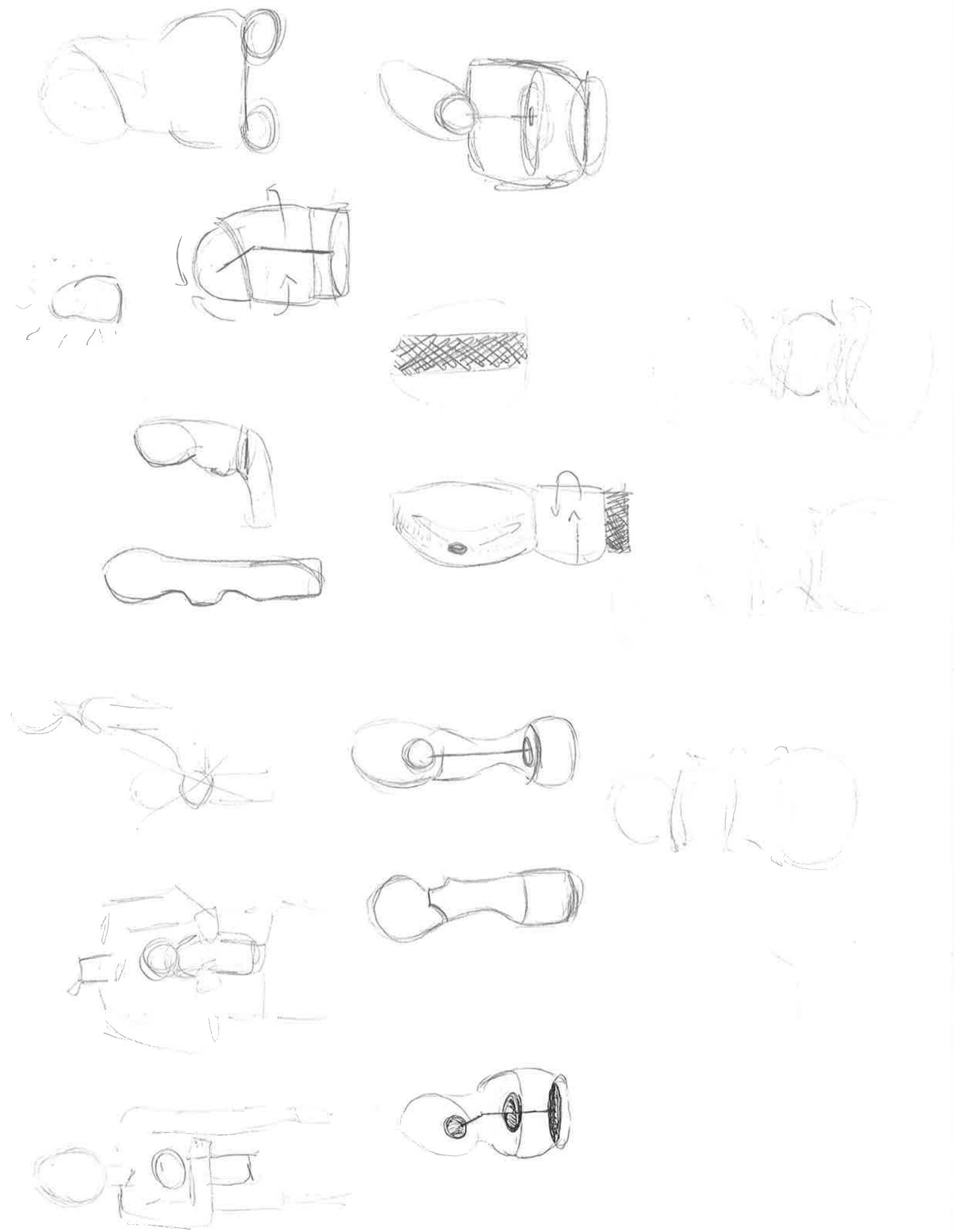
'Show it what happen's'

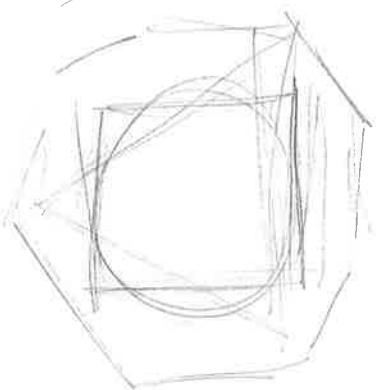
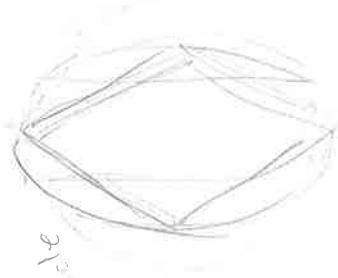
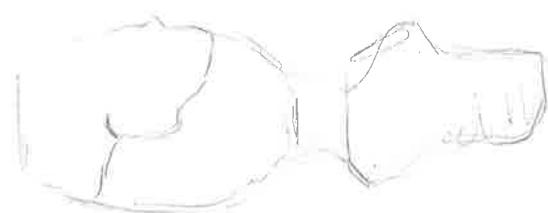
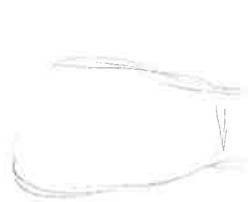
carry
Stand steady

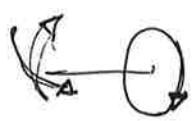








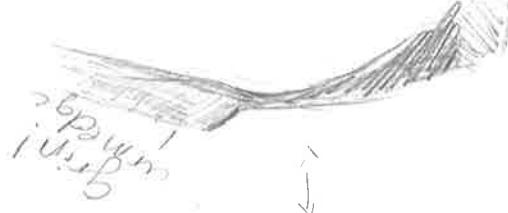




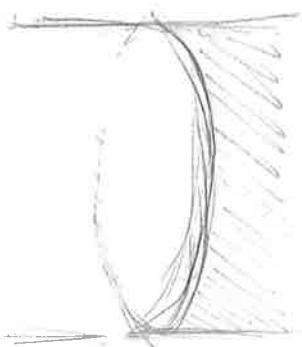
10 de otoño
10 de otoño
10 de otoño



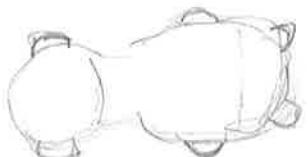
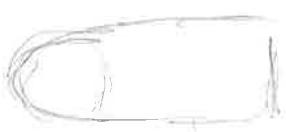
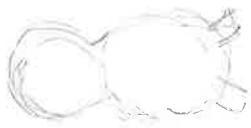
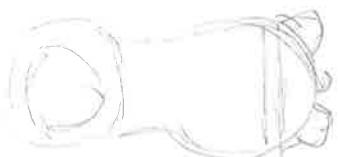
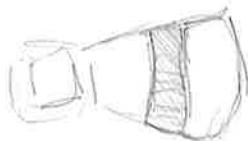
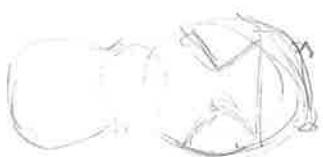
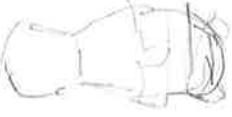
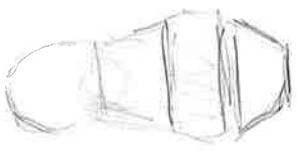
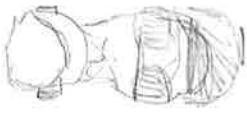
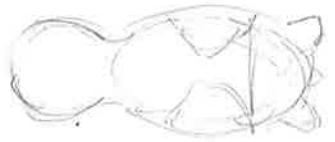
100
100



360
circle o redondo!!







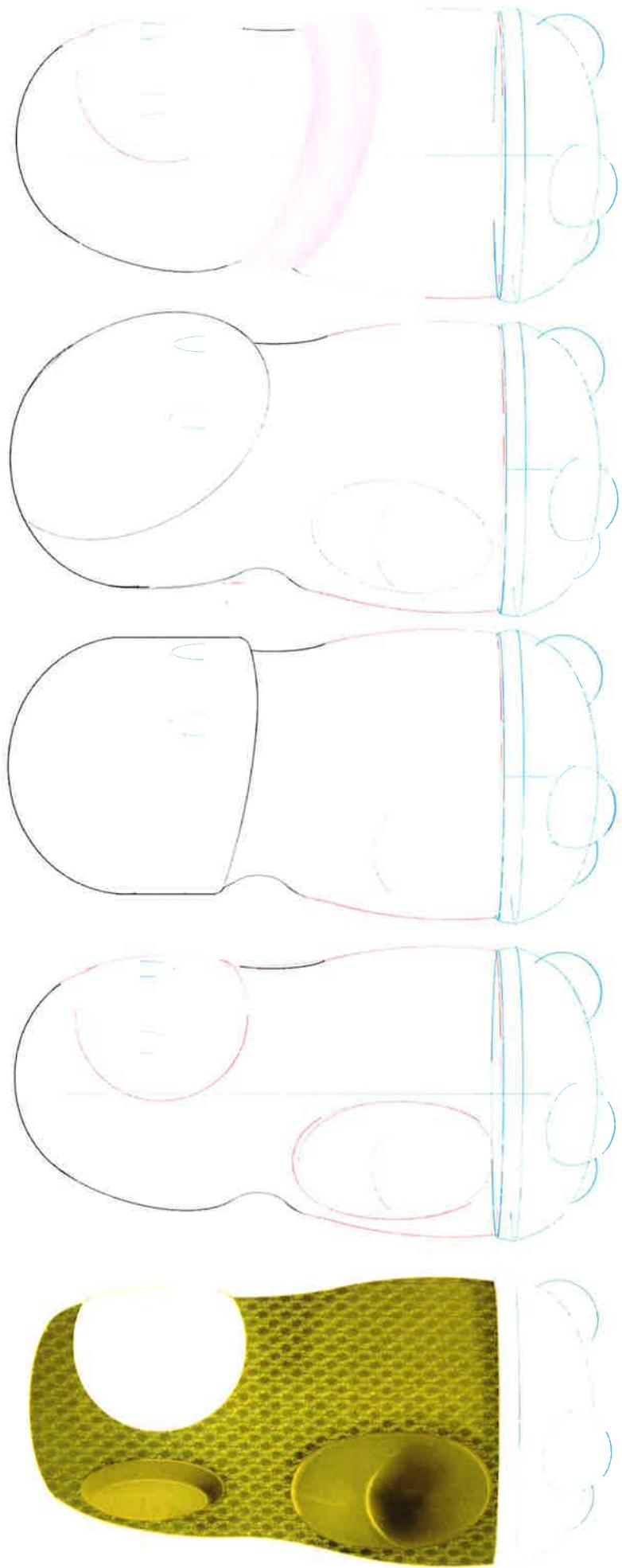
8

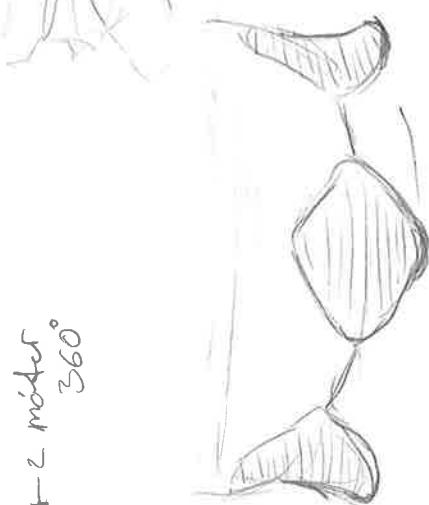
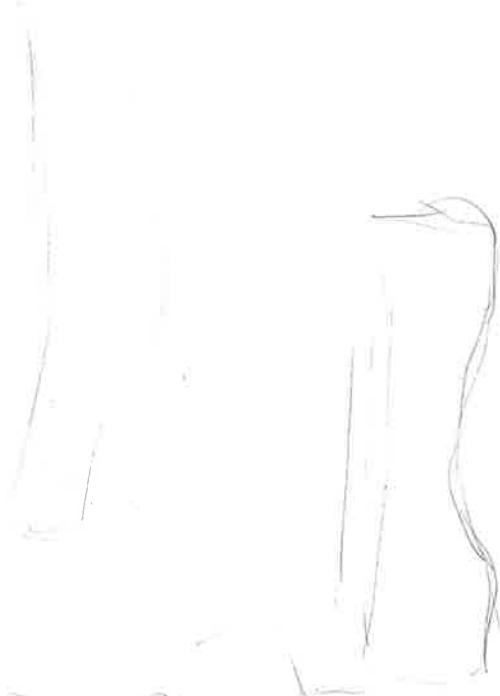
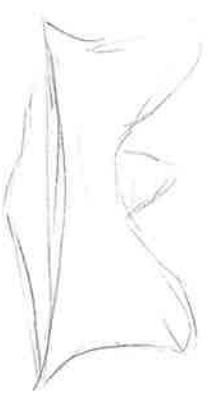
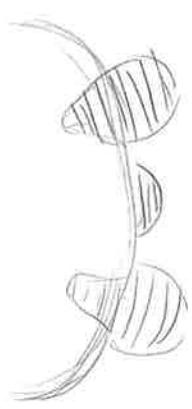


CONCEPT DEVELOPMENT

SKETCHES

PHASE 3.





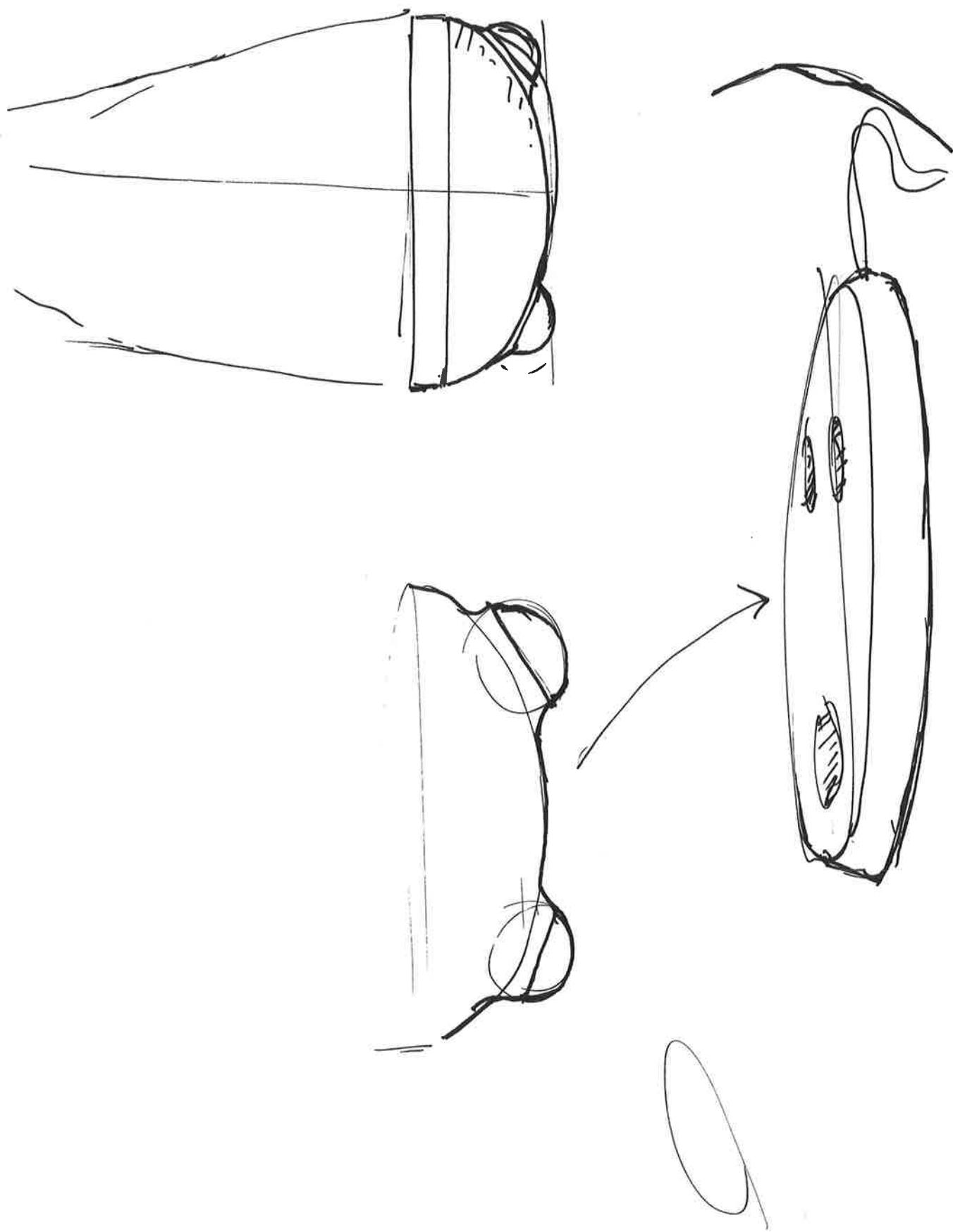
→ 2 motor
360°

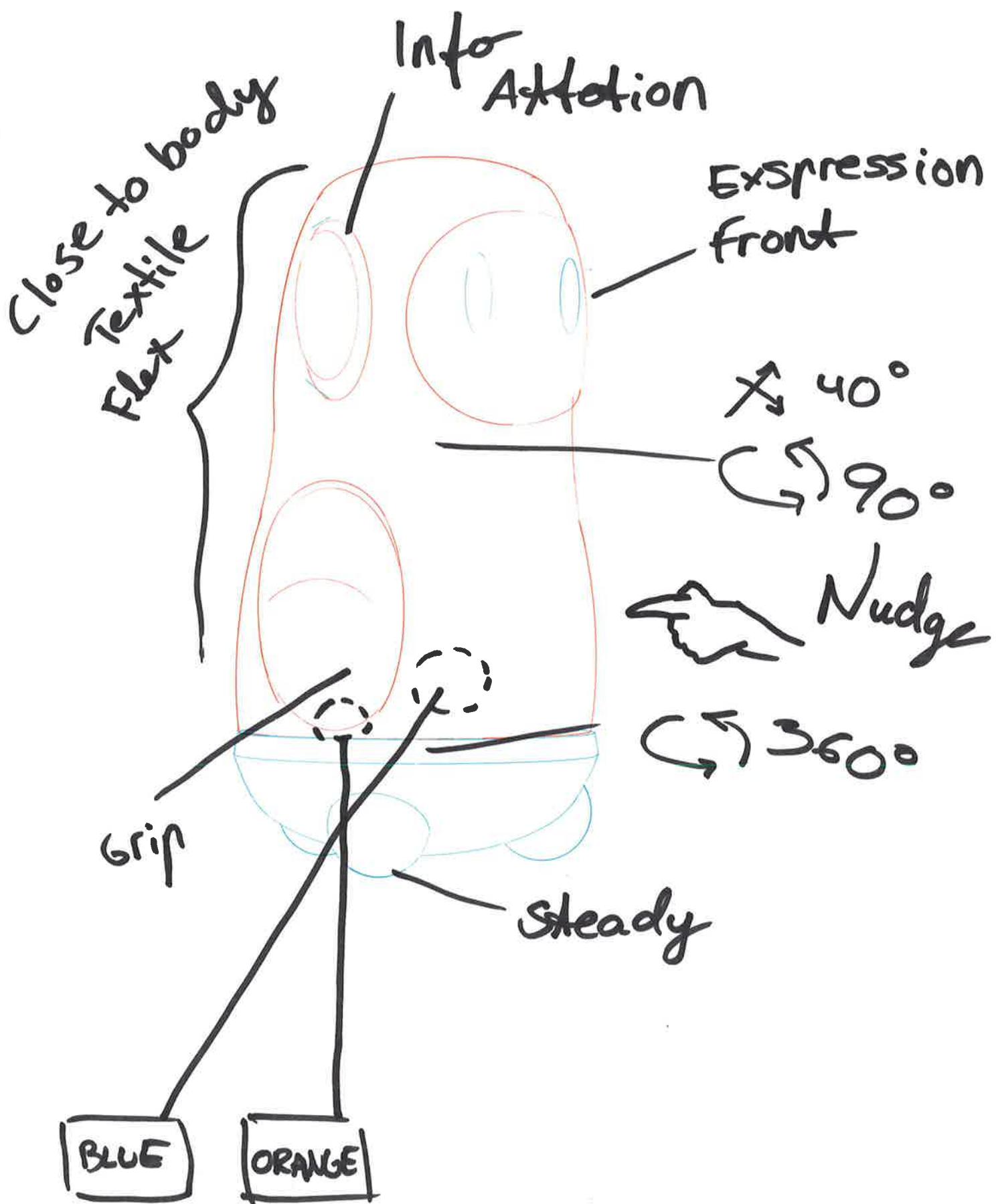
Battery

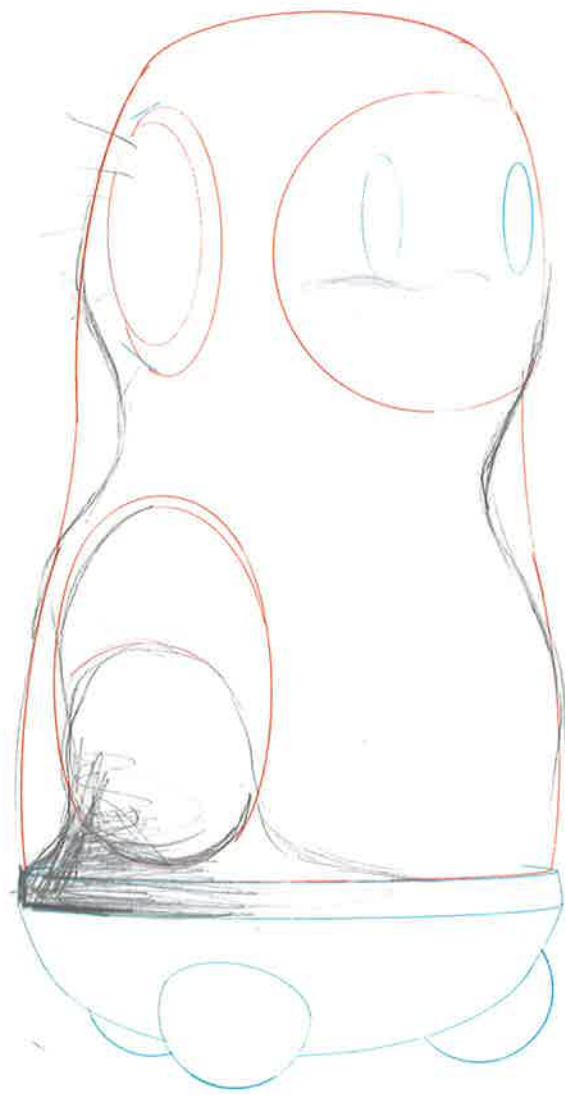


Connection

Dock charged?







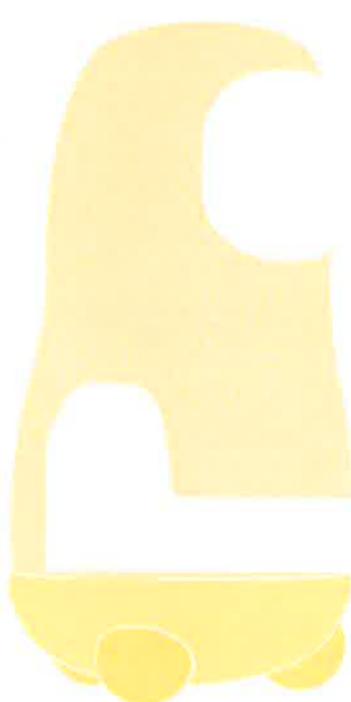
Hello my friend

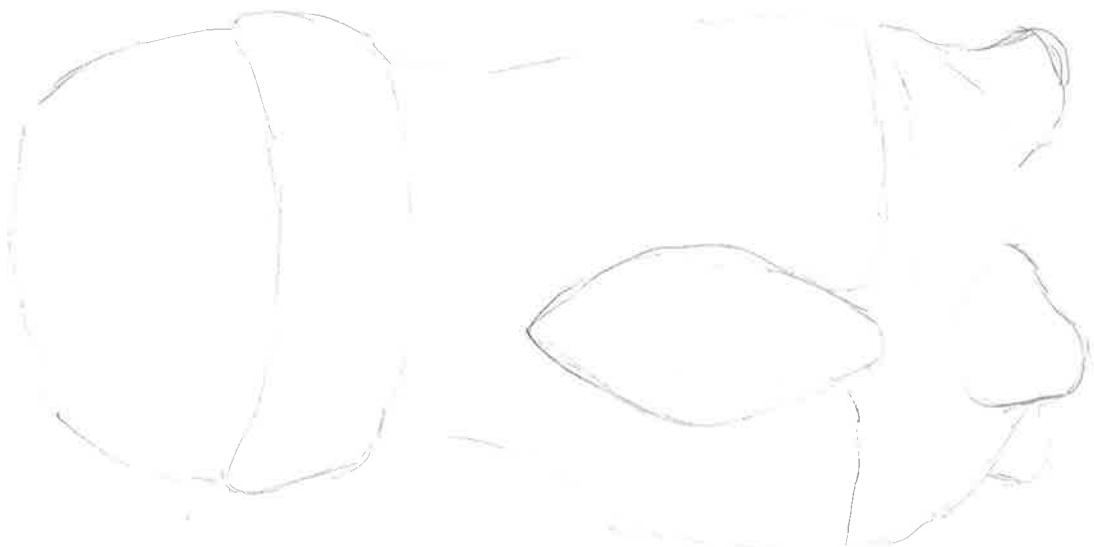
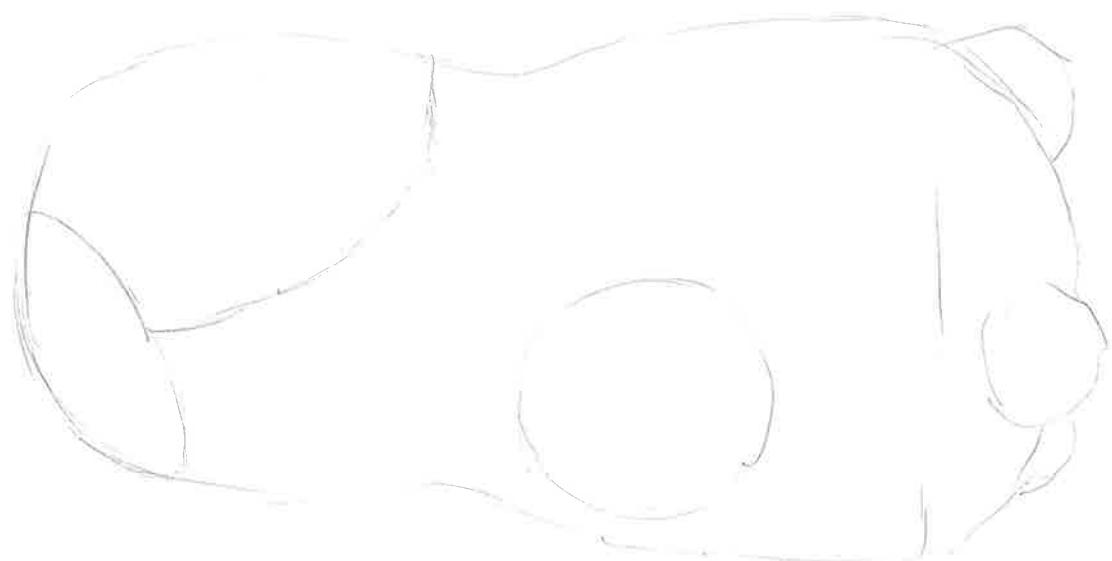
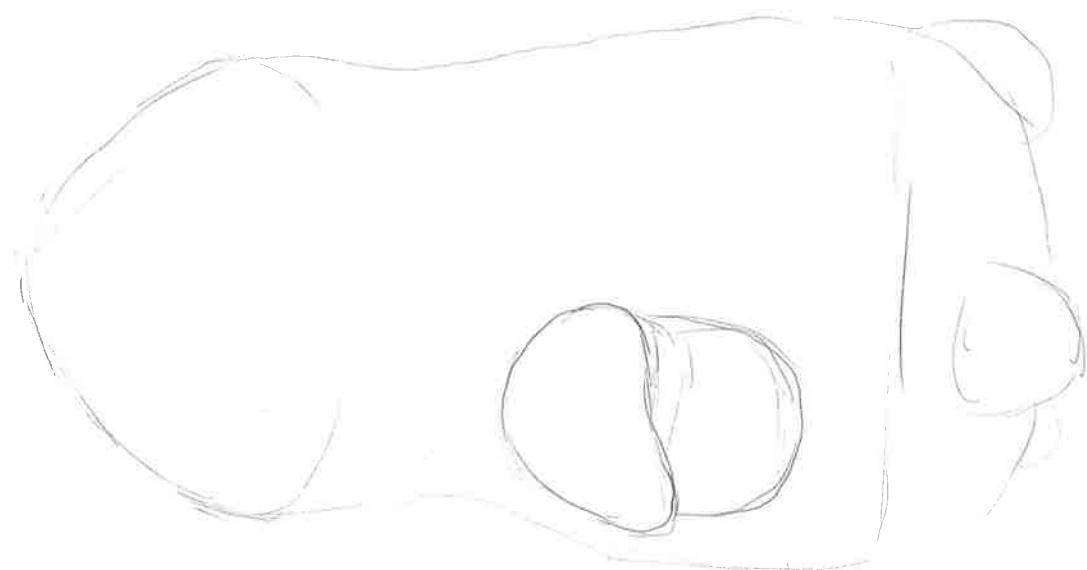
head ↑ material
- Ø different speed

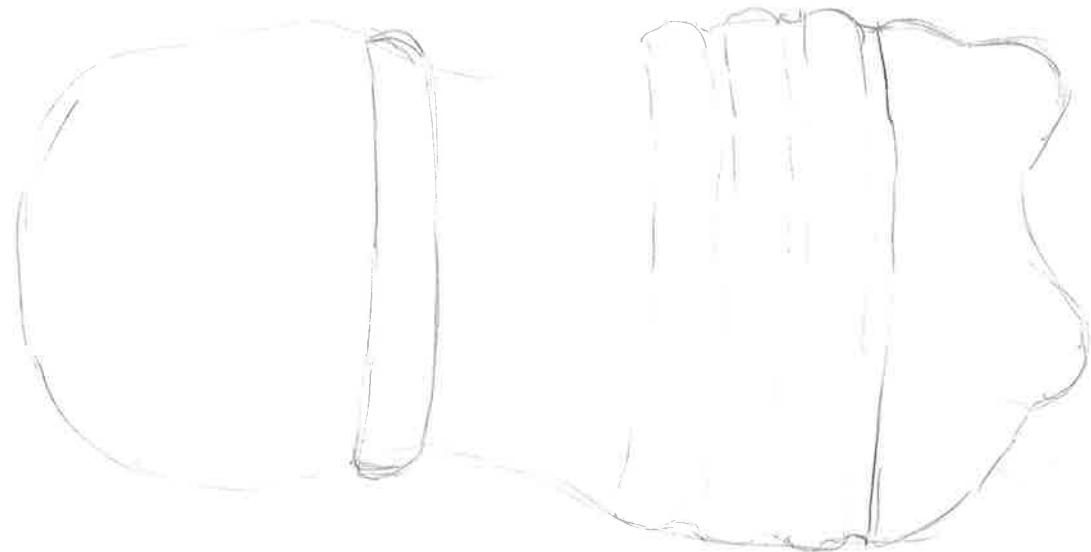
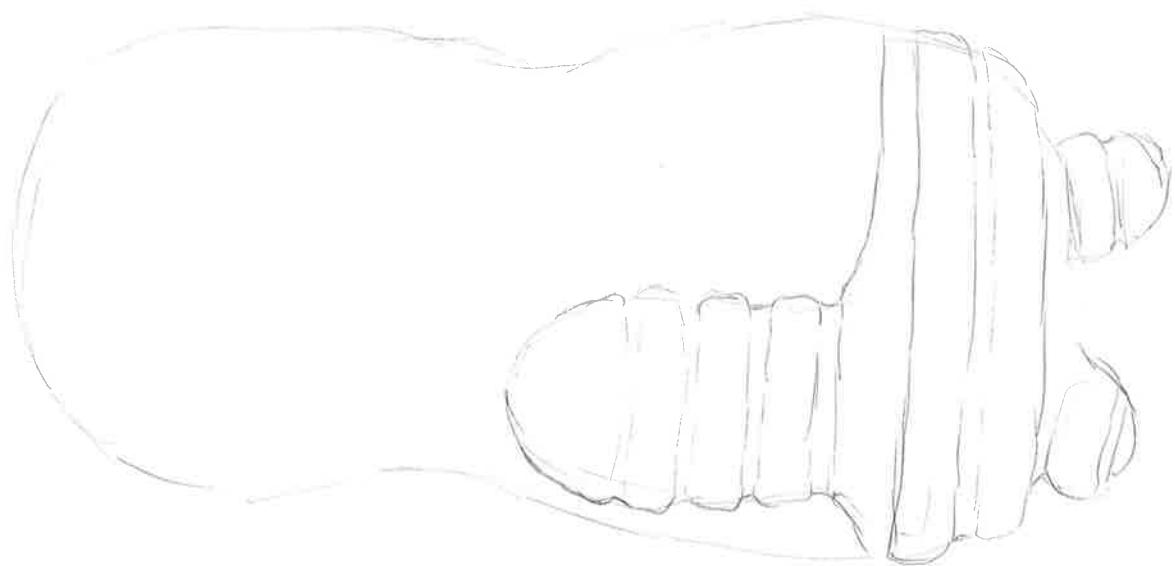
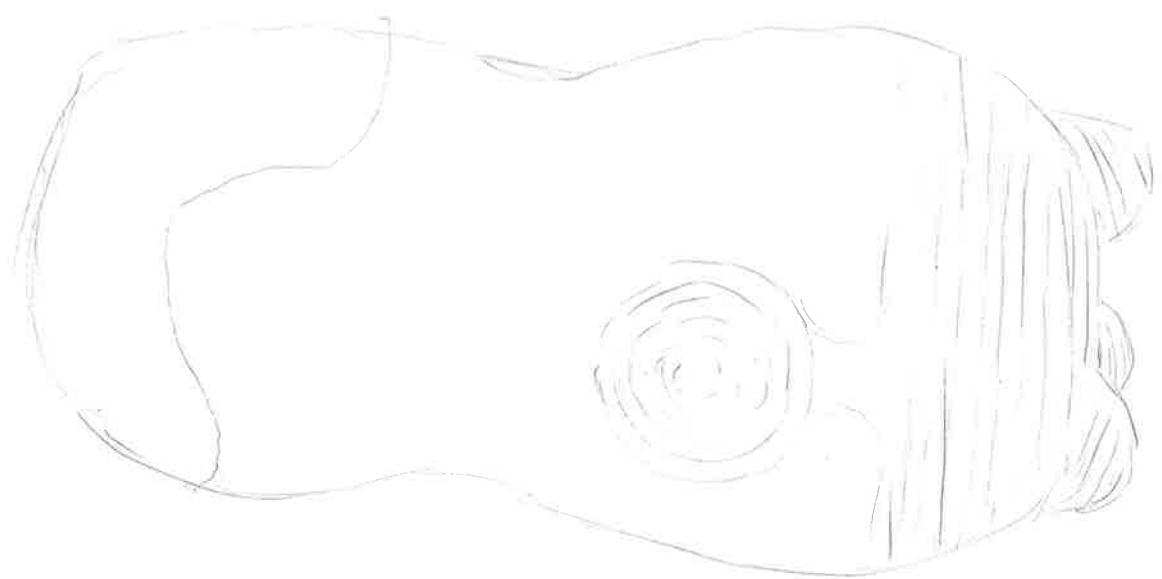


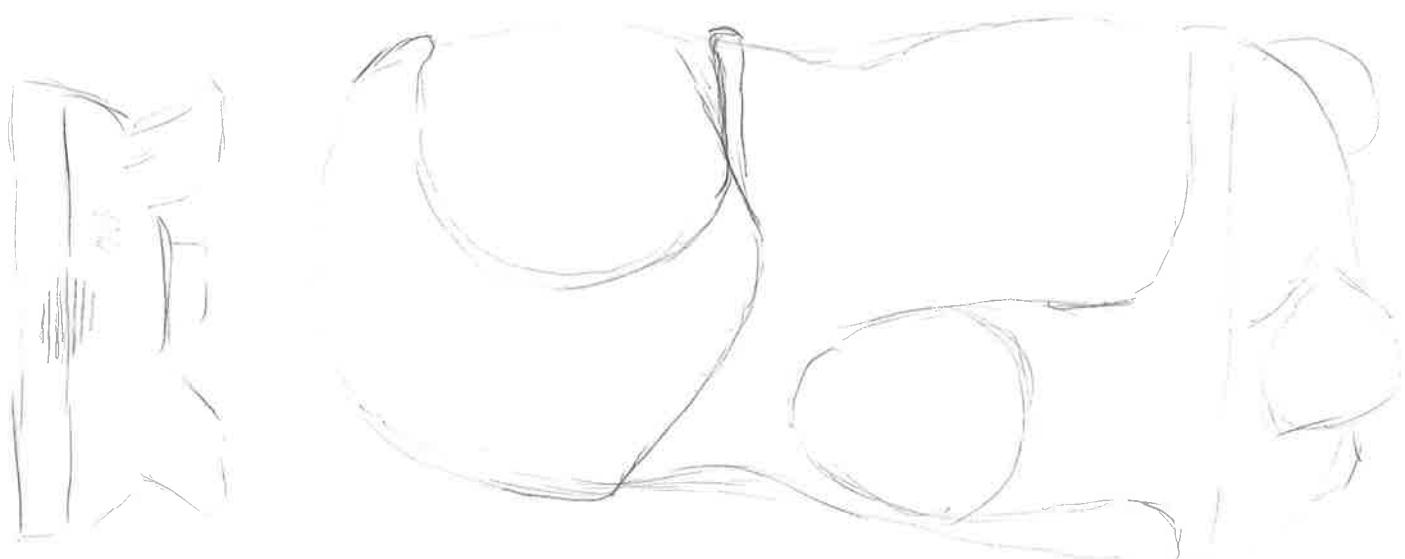
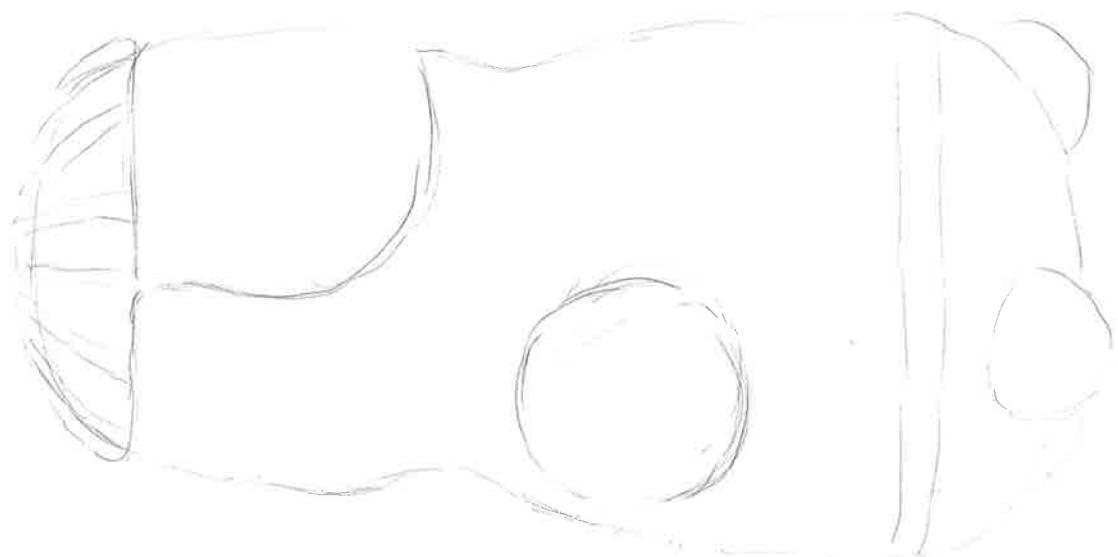
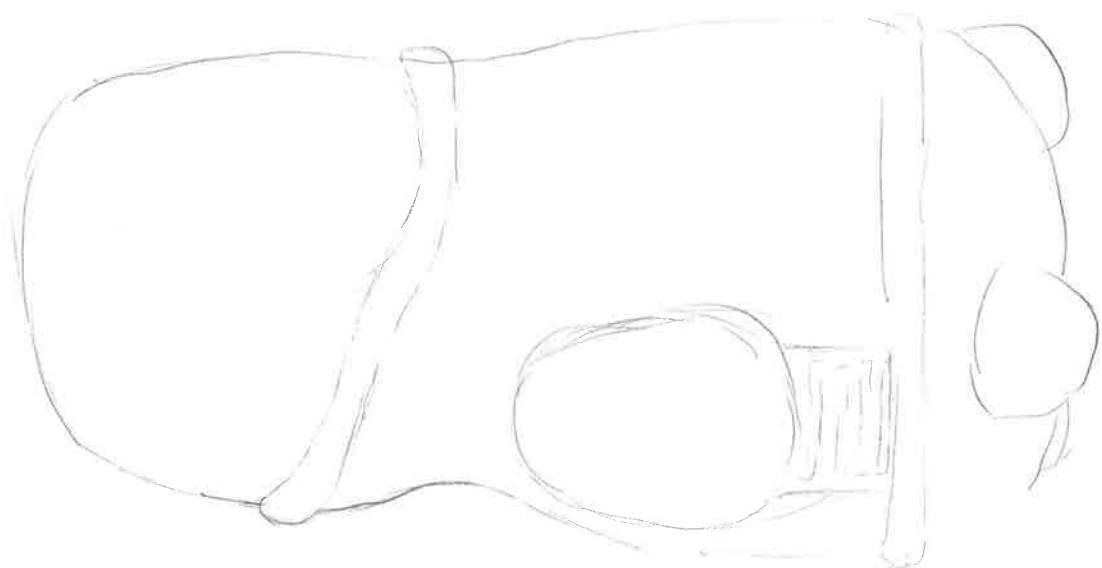
Where is } Passive?
How is } Question?
neutral?







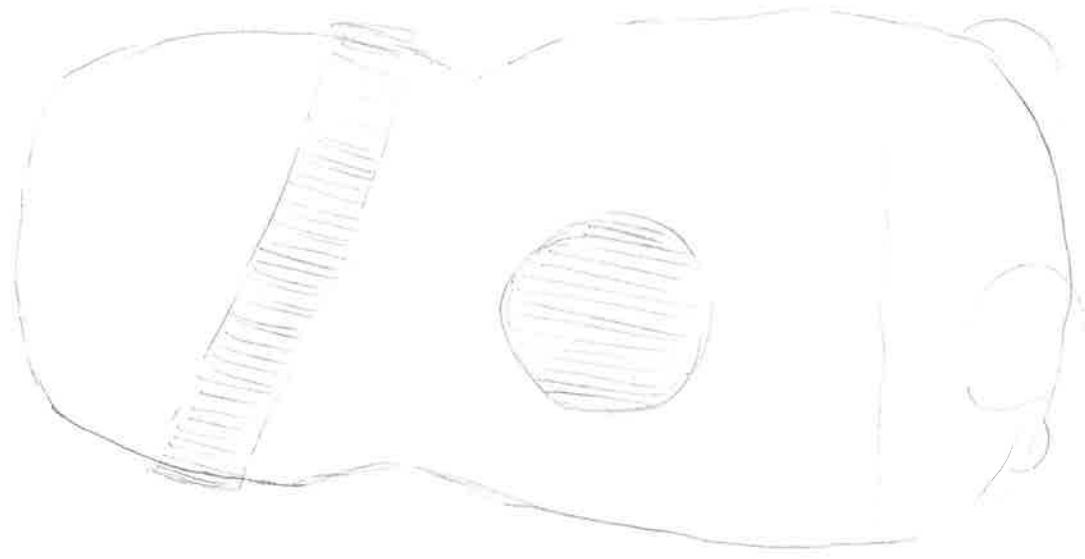
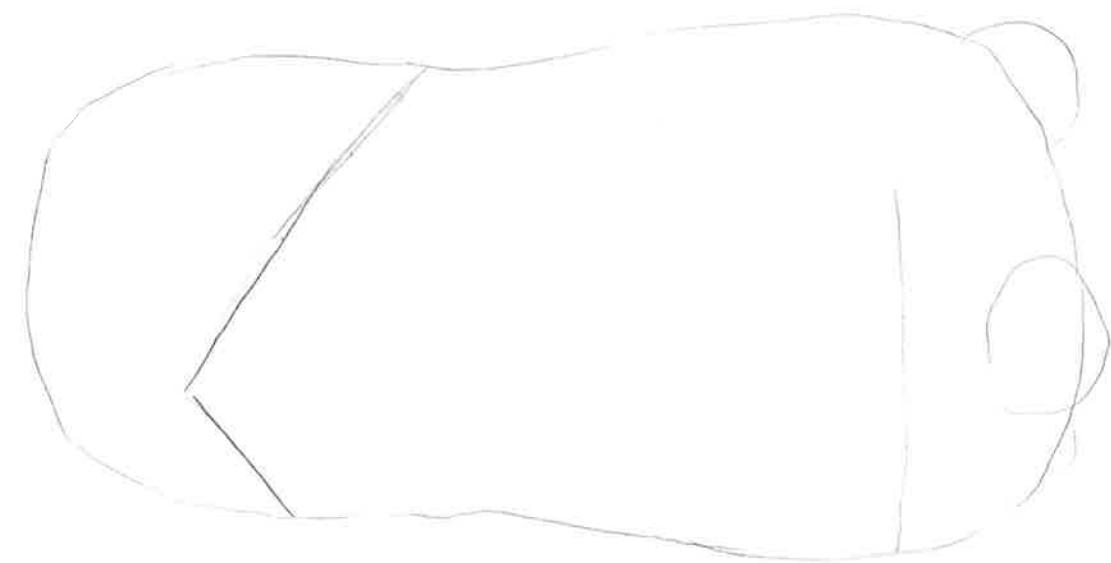
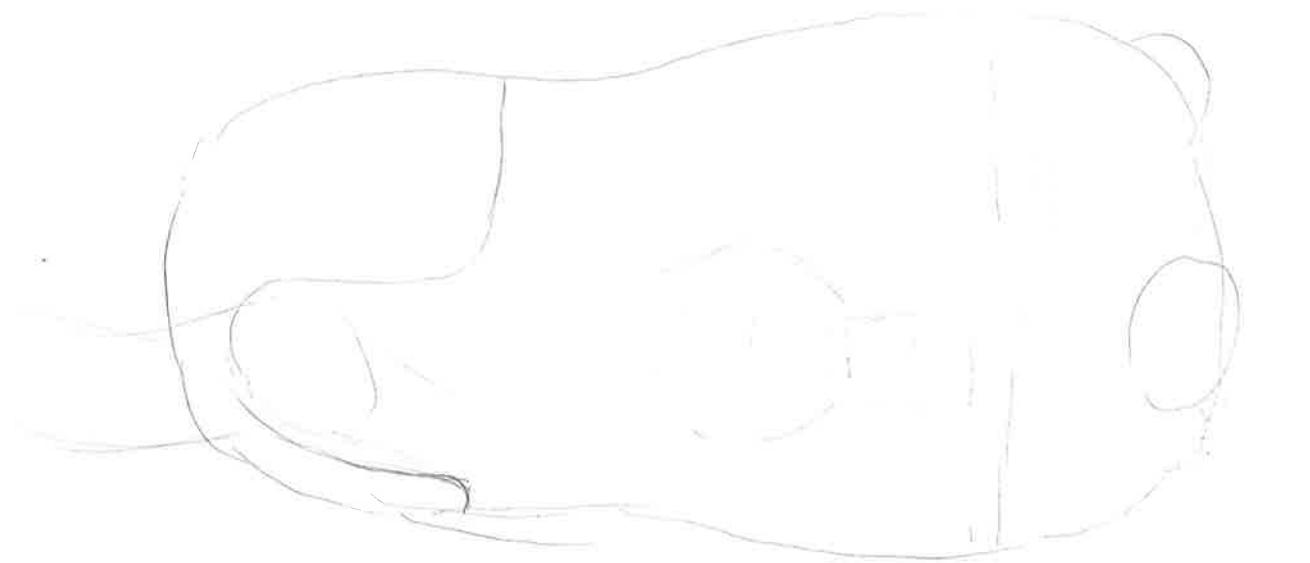




Passive - light / rules?

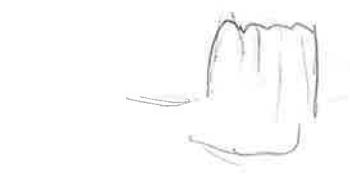
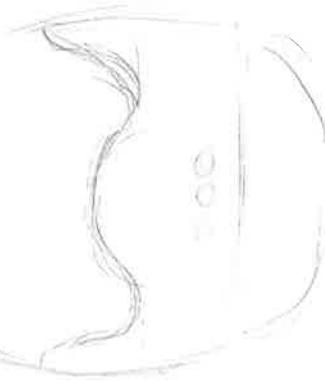
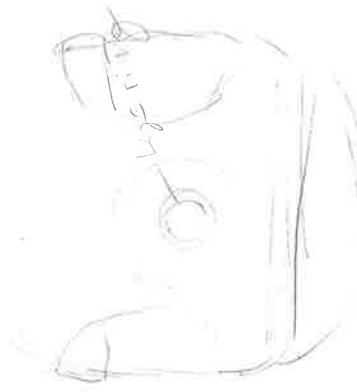
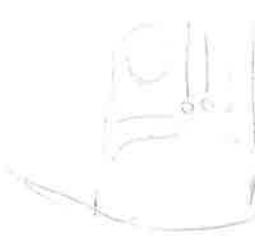
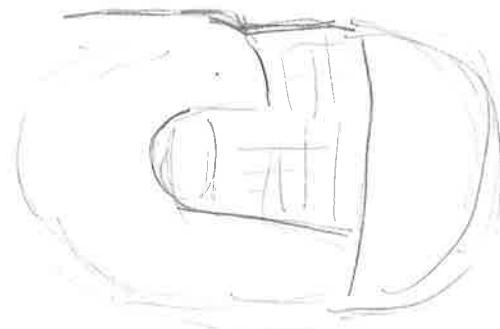
Eyes - light

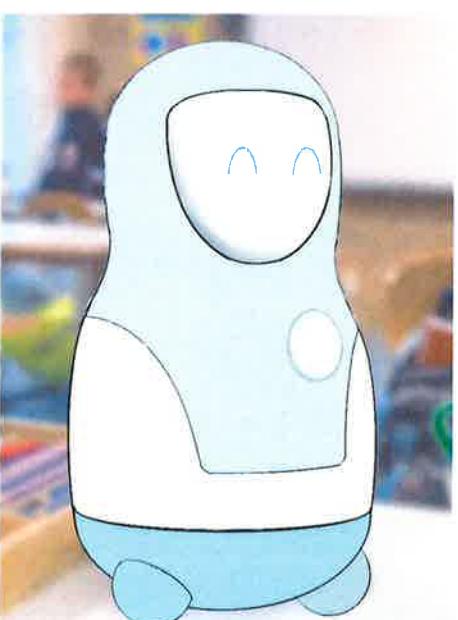
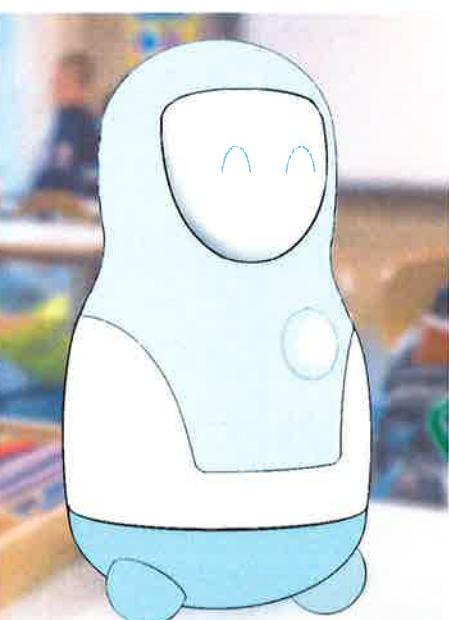
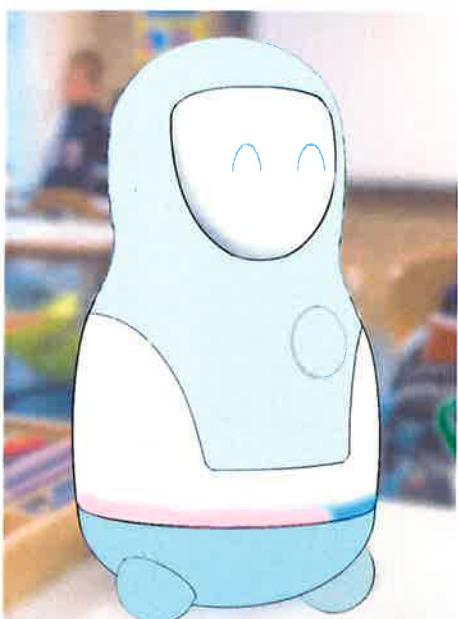
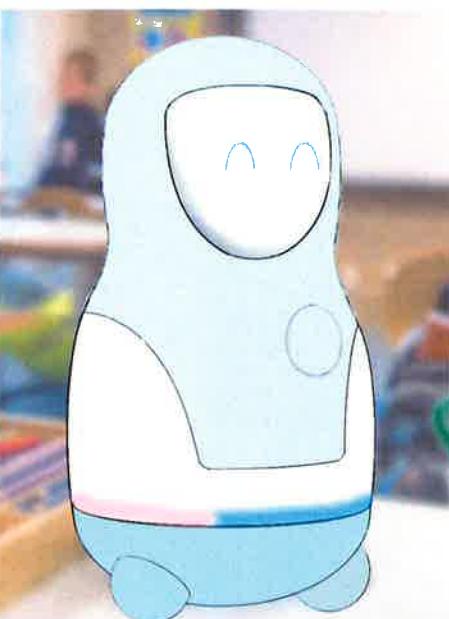
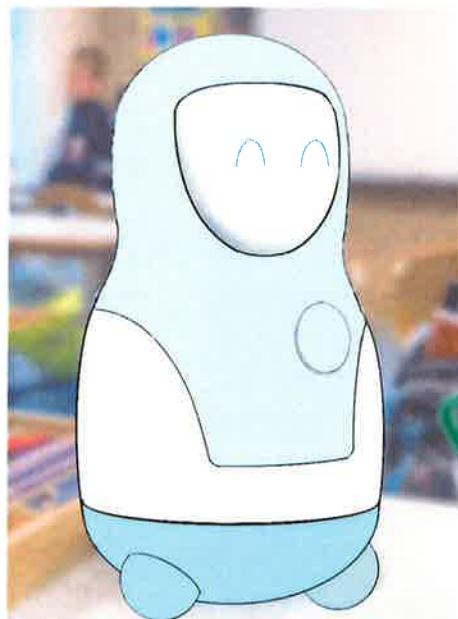
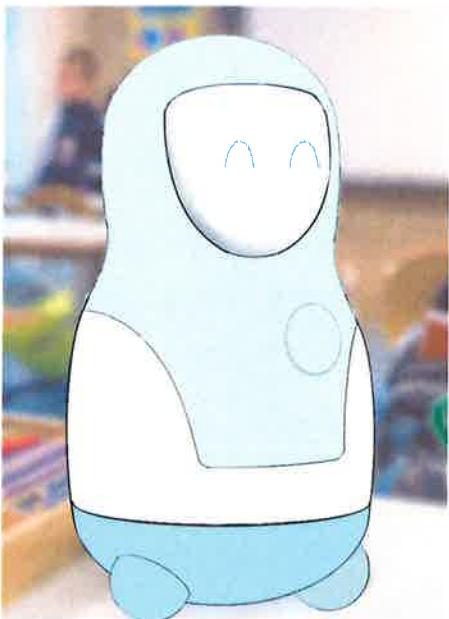
Attention - flash / blink

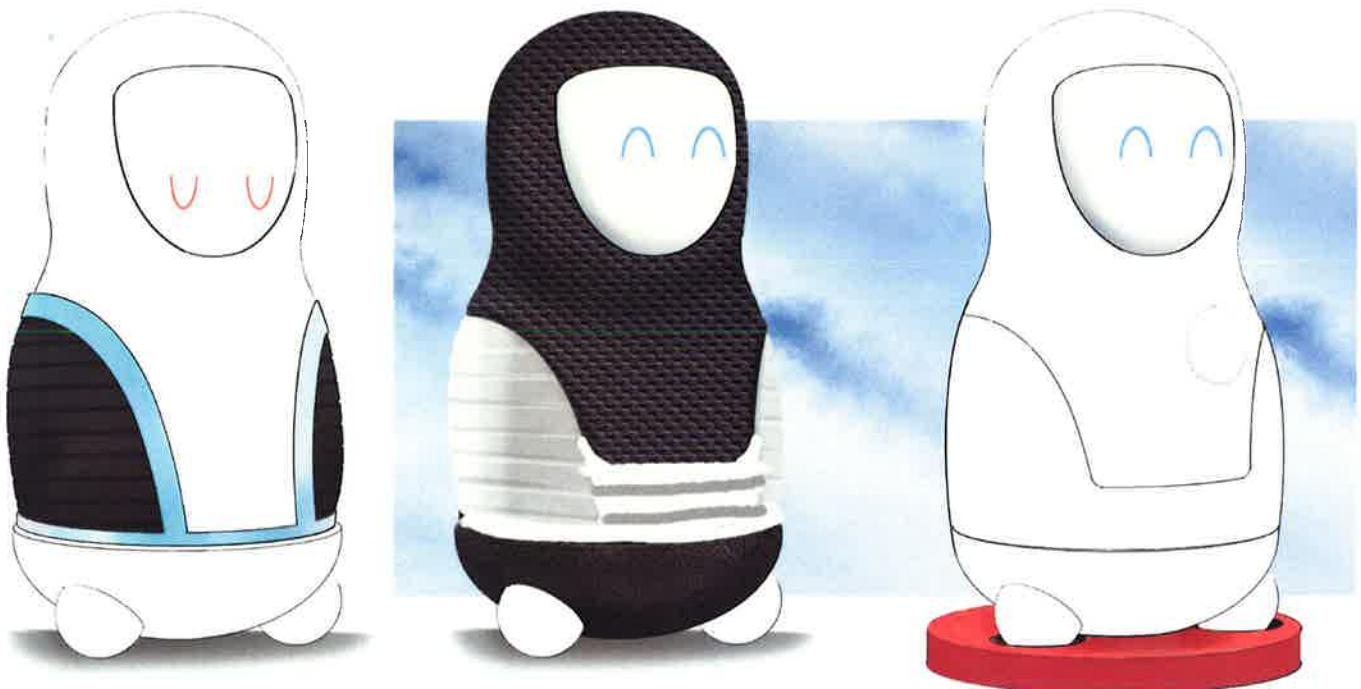


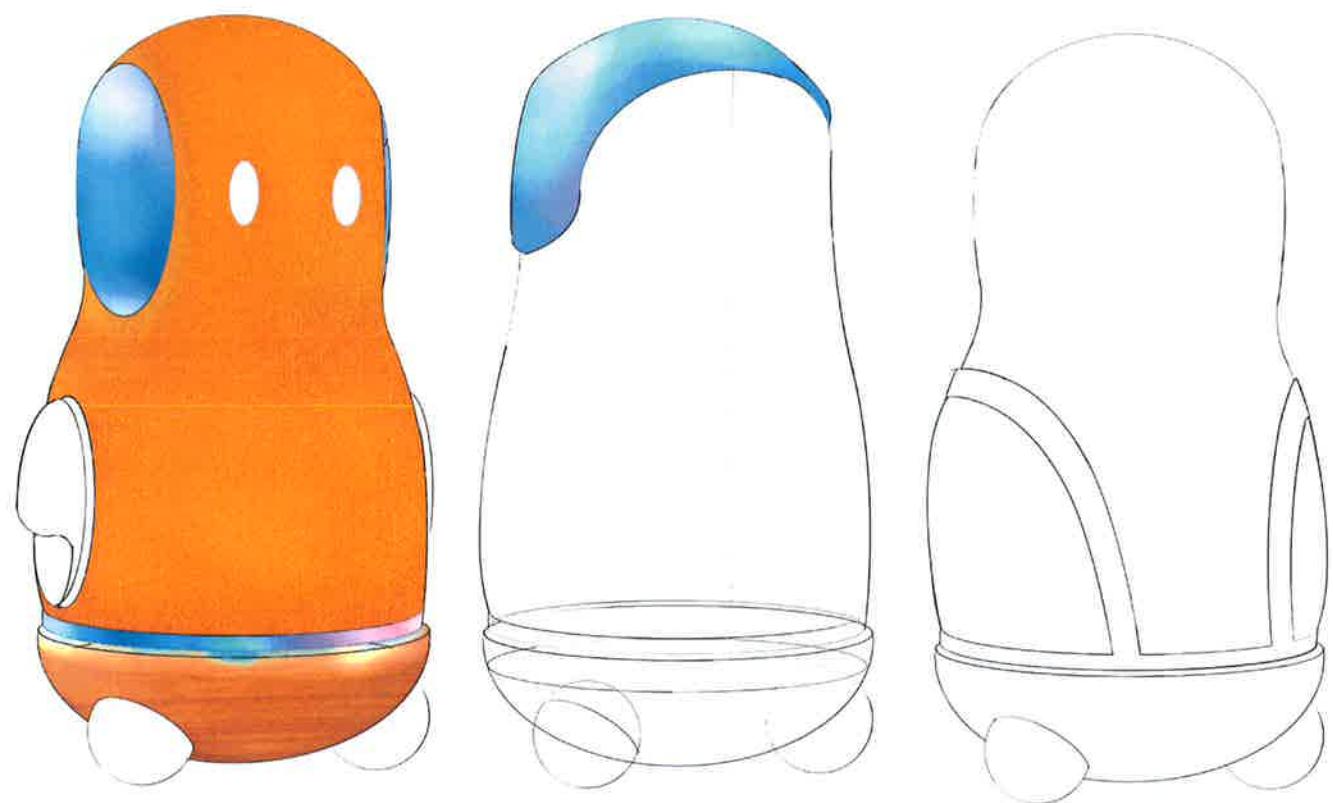
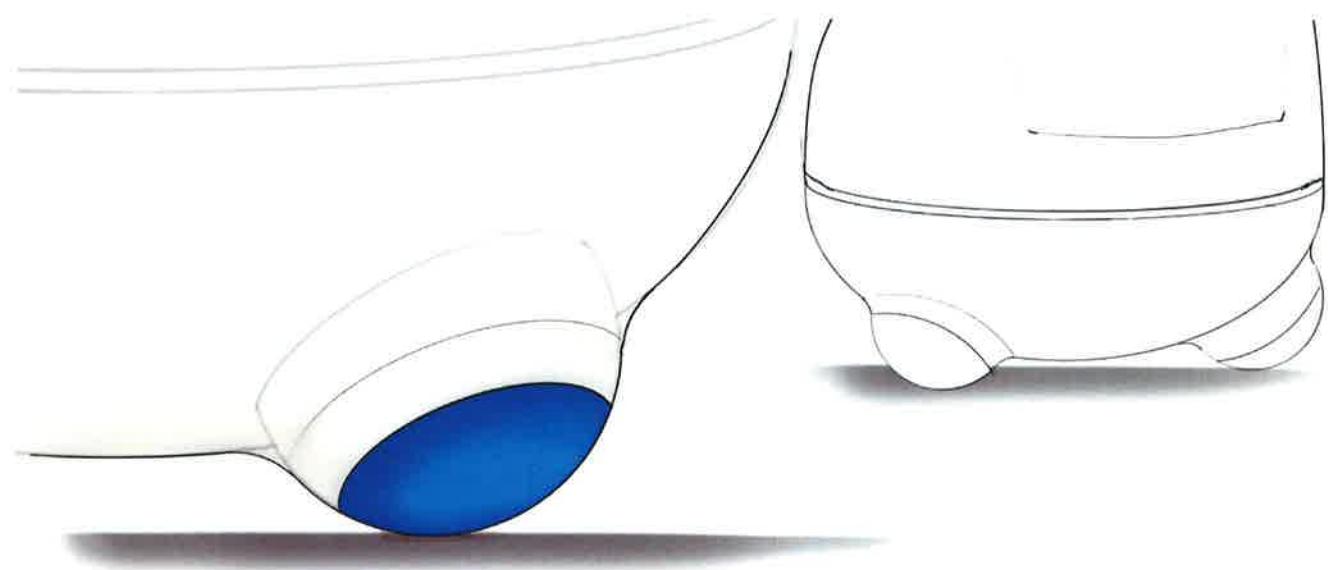
- næ: venter på nælging
loger næ - tilkoblet
Aksjær = oppmerksomhet
Passiv
- skur seg av - trakoblet

Modusering: Bakteri:niva
Dekning





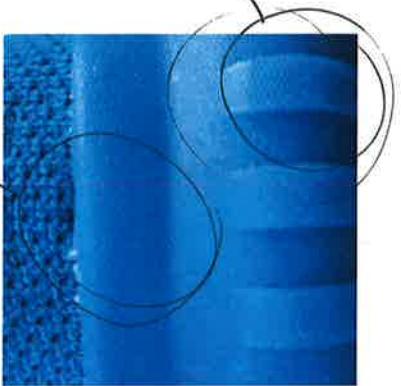




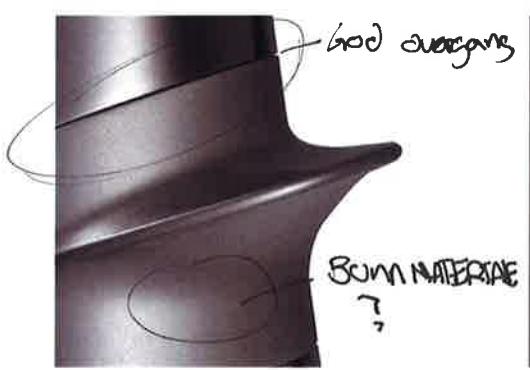
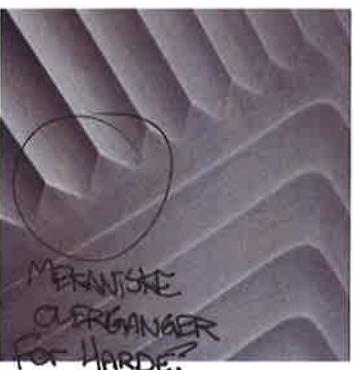
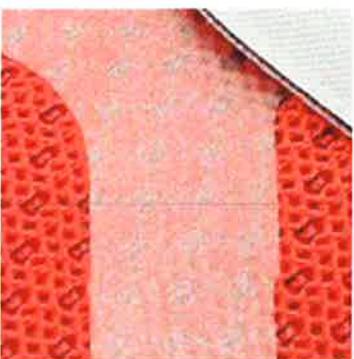
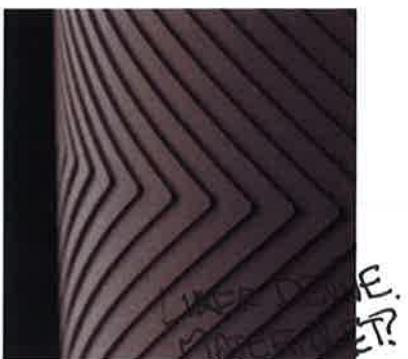
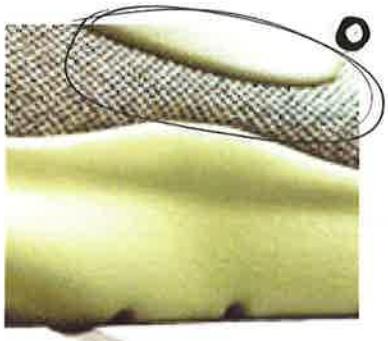
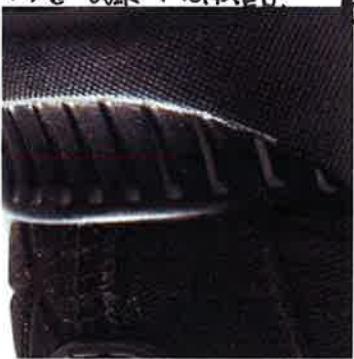
FINALIZING

MOOD BOARDS, SKETCHES AND RENDERINGS

For HARDE OVERGANGER



KAN SKJØP VANDELIG Å FÅ TIL A
FLYTE OVER I FORMBU?

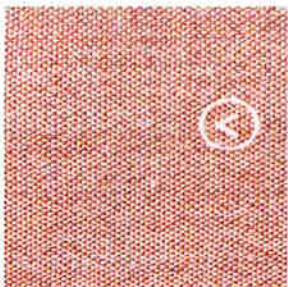




Soft transitions to get a
easy clean.



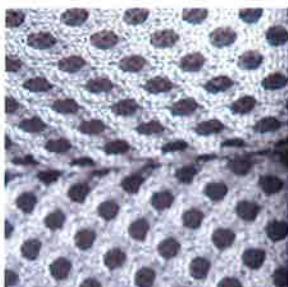
Strong for not being
unsanitary and easy to
take off and put in the
washing machine when
needed.



Marked Nudge button?



Discrete but functions
after needs fitting the
hand of a child as well as
an adult



Soft, for protecting the
technology but a nice
meeting to the body
holding it



transitions, nudge button?



GRIp A surface that allow
you to hold the avatar
without being afraid of
loosing it.



FLEX TOP taking in use flexi
material on top part, allowing
for human like motion in
neck, rubber/textile



MATERIAL MEETING merging
ing, and all other needs,
plastic for grip, textile
close to body....



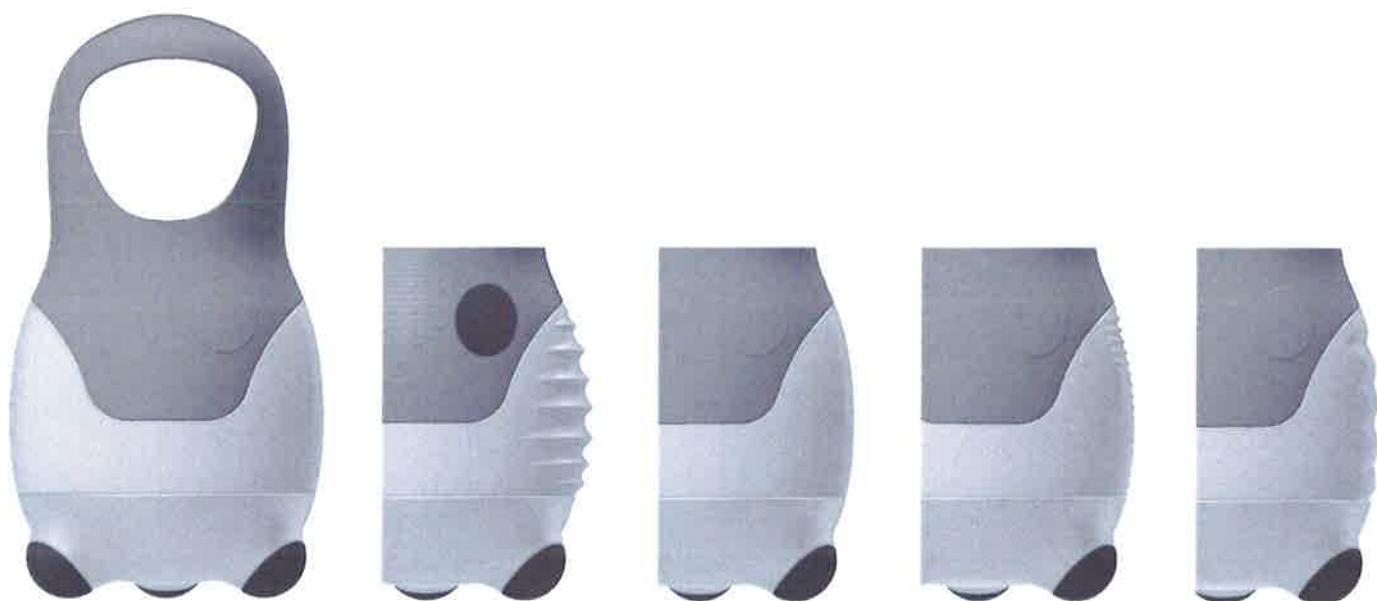
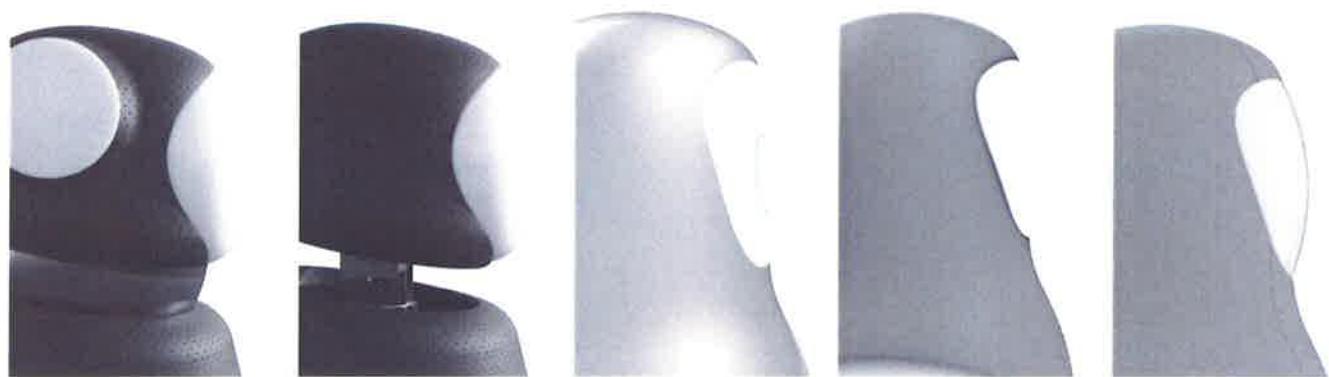
Subtle, not showing light
unless pushed to give you
information when wanted.
sunck down to not get
pushed unintended.



INFORMATION BUTTONS
Tactile, symbols, emboid

LIGHT
Using colors and different
intensity to indicate different
moods and functions

SCREEN
White screen for face, lit up
and eyes have more inten-
sity and different options









Shannon



functions testing



AV - Head ned



Look to the
right



Look to the
left
NOT BODY SPINNING
only after 40°



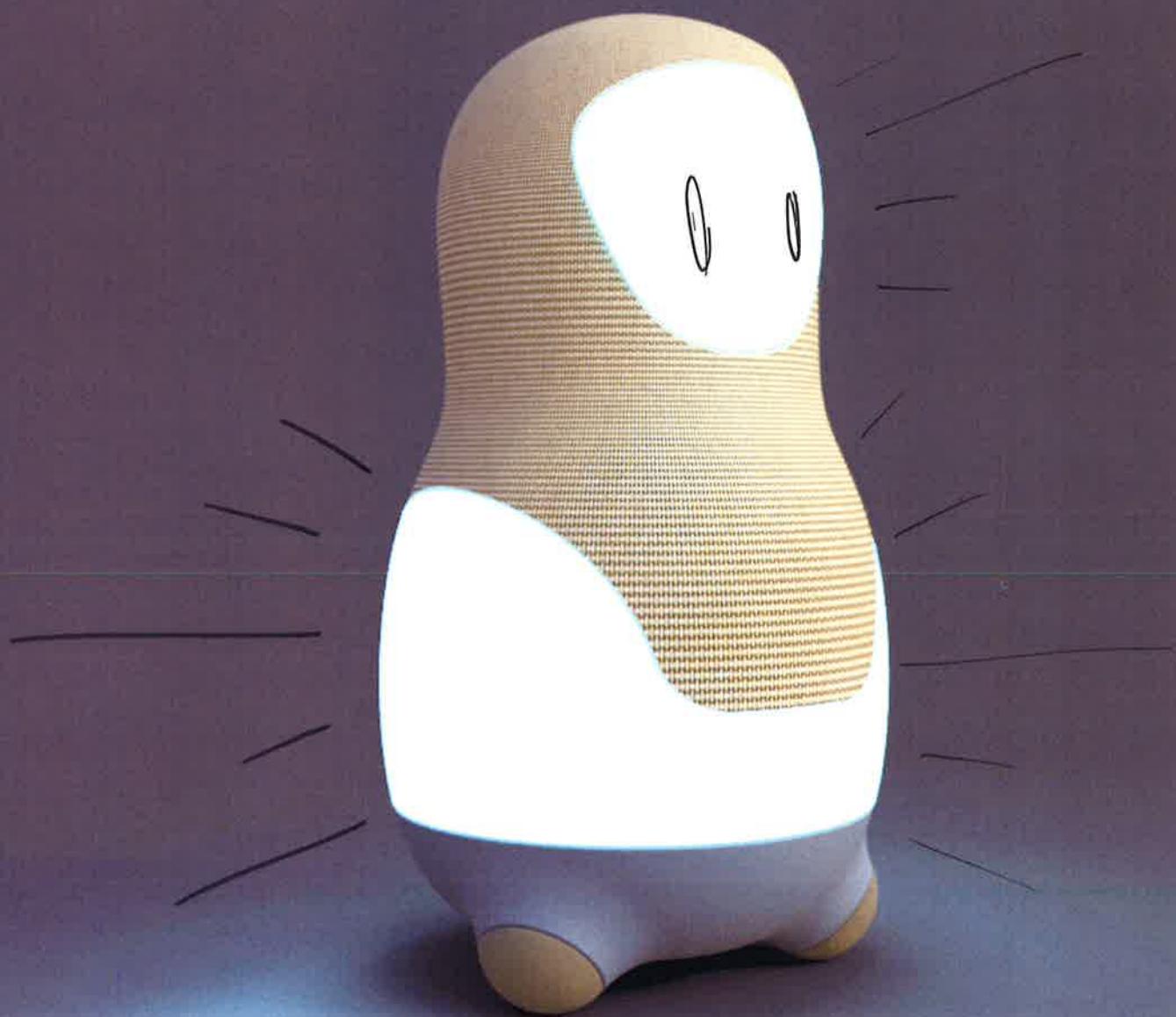
Down, as it is
when off too

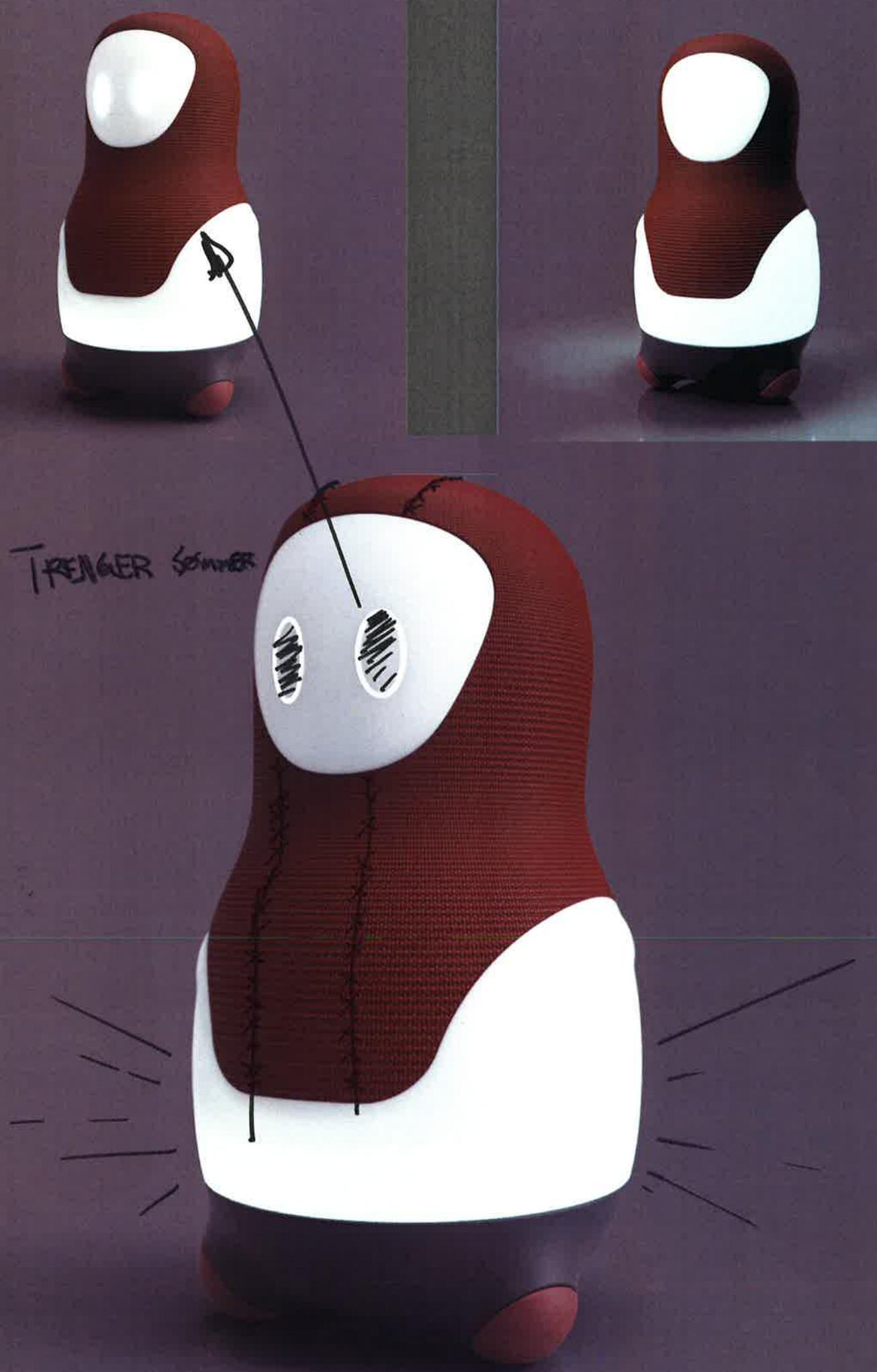


Normal



UP











FÄRGSPEKTÖR



LADERBIKE

