

1. Problem definition: Design a sunglasses

❖ *Define target population:* Kids 7-8 years
Sex Male

❖ *Context of use:* **Posture sitting or standing**
Use on sunny days
Use with comfortable clothes

❖ *Anthropometric resources*

In this design we use the DINED anthropometric database

Main measures used: *Head height*
Head breadth
Head depth
Nose bridge length
Nose width
Face length
Face width
Nasal root breadth

2. Product ideas

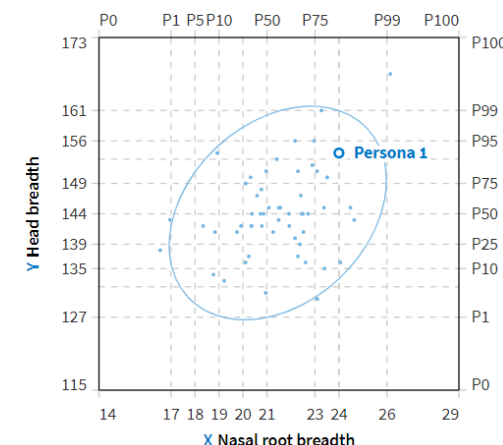
The appropriate type of anthropometric accomodation

Based on a 90-92% percentil

Head height	7	206 mm	P91	Nose width	97	31 mm	P91
Head breadth	23	154 mm	P92	Face length	85	117 mm	P90
Head depth	28	188 mm	P90	Face width	89	120 mm	P90
Nose bridge length	95	31 mm	P92	Nasal root breadth	93	24 mm	P92

Measure

Percentil



3. Design concepts

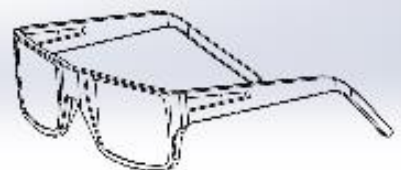
Anthropometric design guideline



Persona 1

Anthropometric requirements

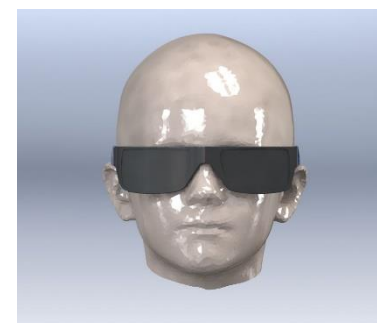
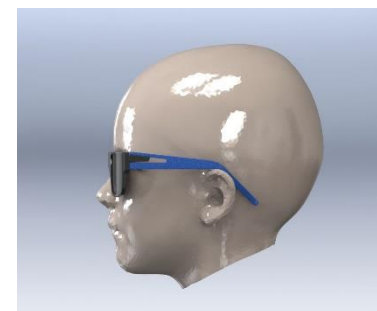
Maniqui 3D



Preliminary design



3. Final Design



Material: Polycarbonate
Resistent material
Ideal for sunny days



Color: Black frame
Blue paw