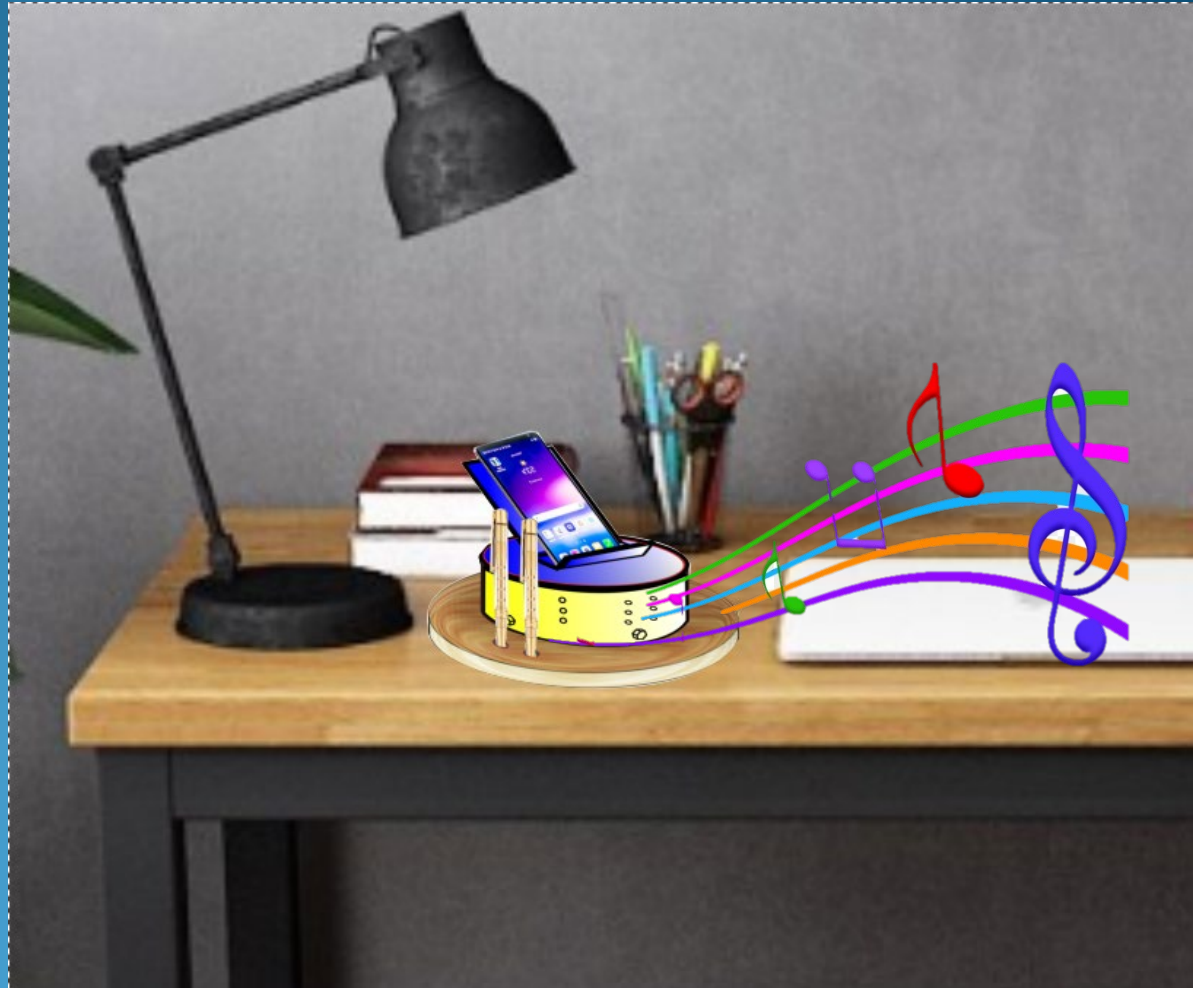
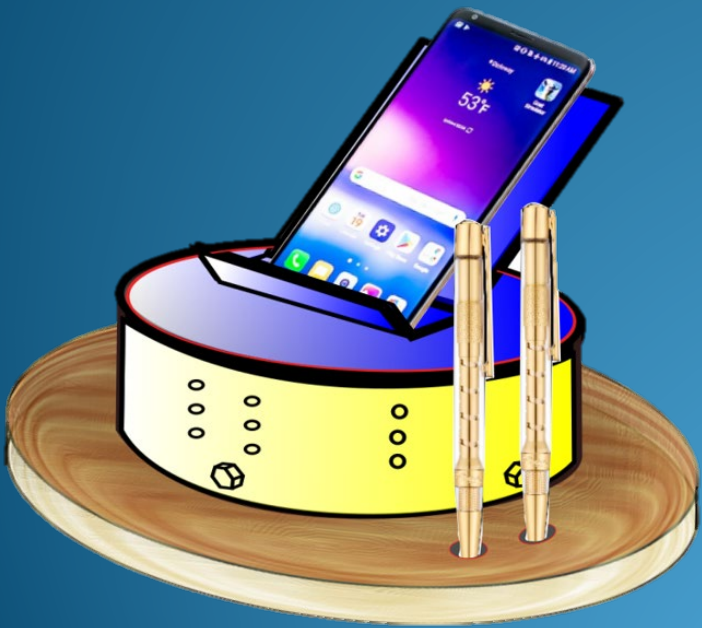


# Taking D&T in Upper Sec



# National Exam for D&T

## Exp/NA - Subject Weightage

- Written Paper : 40%
- Coursework : 60%

## NT - Subject Weightage

- Written Paper : 30%
- Coursework : 70%

### Coursework include :

- 1) Journal
- 2) Presentation Board
- 3) Prototype

# Skills that you will learn

- Time management
- Self discipline
- Problem solving
- Research
- Analyse
- Resilience
- Innovation & Creativity

# What will be taught?

## Designs

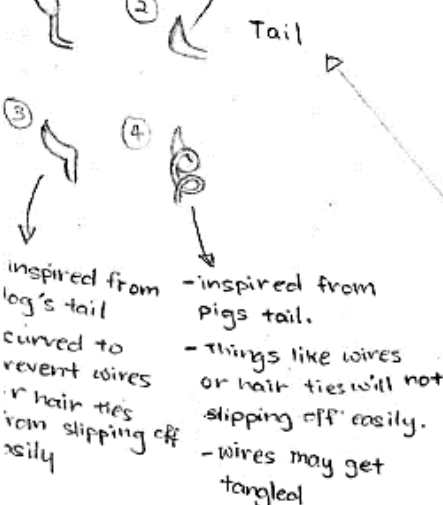
- Sketching
- Technical Drawing
- Rendering
- Presentation Drawing
- Ideation

## Technology

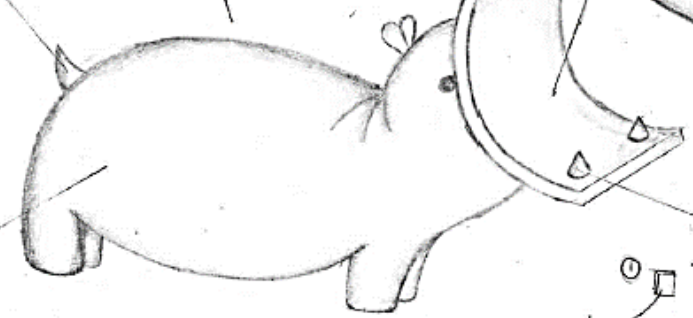
- Structure
- Mechanism
- Electronics

Major Project Part 4a - Development of idea

- inspired from lion's tail
- curved up to prevent wires or hair ties from slipping off easily
- inspired from shape of teeth
- curved up to prevent wires or hair ties from slipping off easily



Hippo stand can also be used as a stationary or book holder and as a decoration



inspired from triangle shape

phone will be placed here (Mouth)

inspired from ducks mouth

inspired from hippo's mouth

A hinge will be put here so that it will be able to move and adjust to desired angle for phone to be at.

To prevent phone from sliding off (Teeth)

inspired from shape of an animal's teeth

- Curved in so phone have a lesser chance of toppling over when someone accidentally hit the phone

inspired from teeth

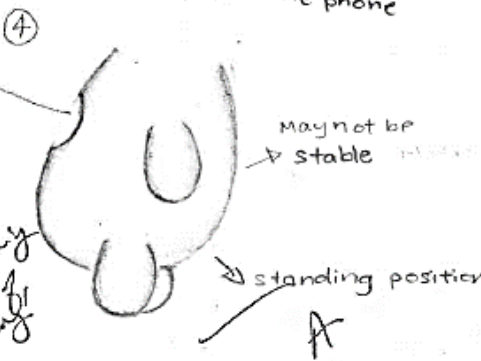
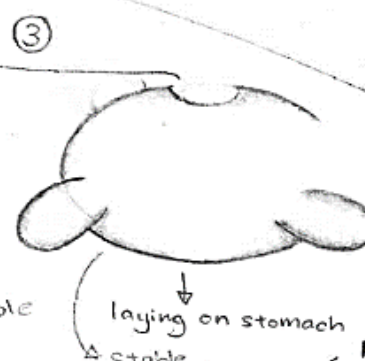
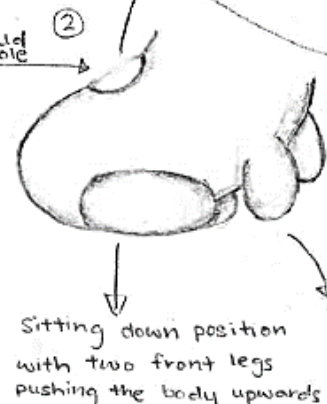
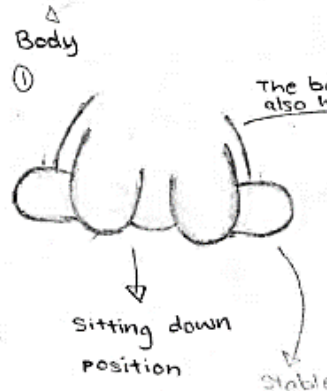
human

- modified from shape of teeth

- modification of human teeth

A hole to put stationeries

The back would also have a hole



Sitting down position

stable

Sitting down position with two front legs pushing the body upwards

stable

laying on stomach

stable

may not be stable

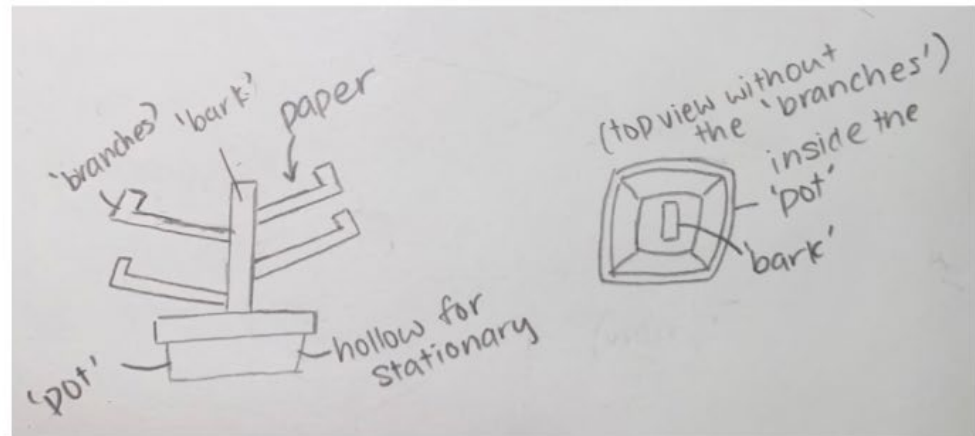
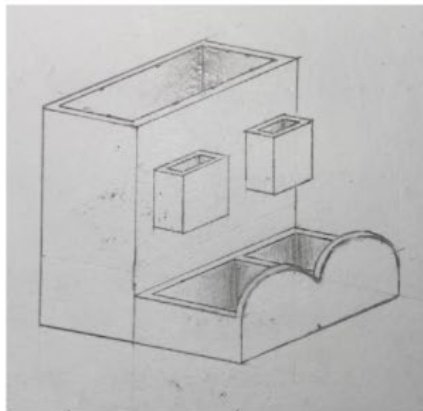
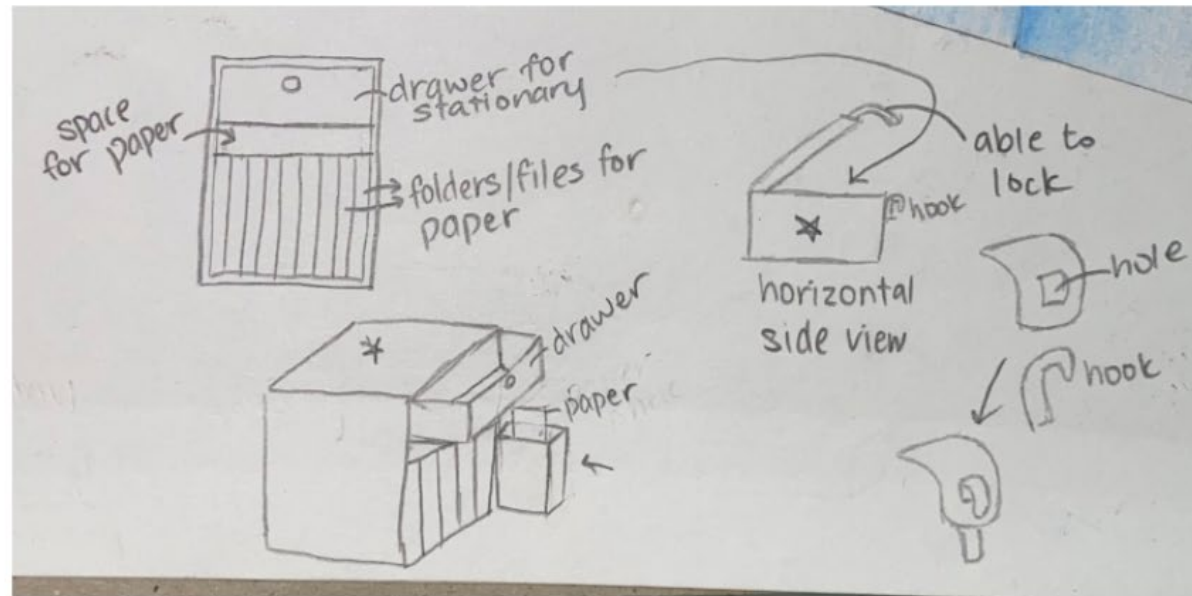
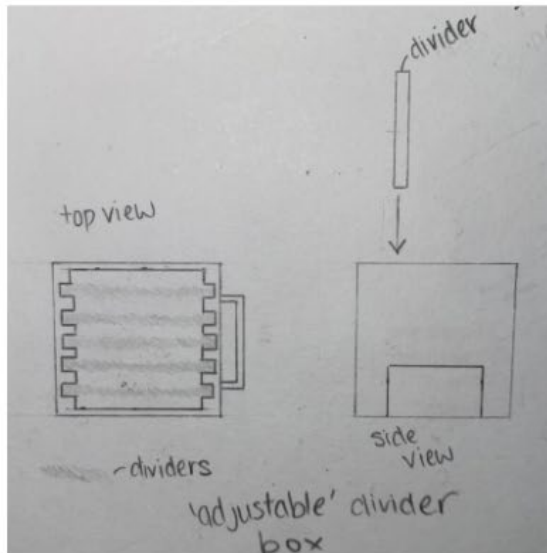
standing position

- nice design  
- good use of shading



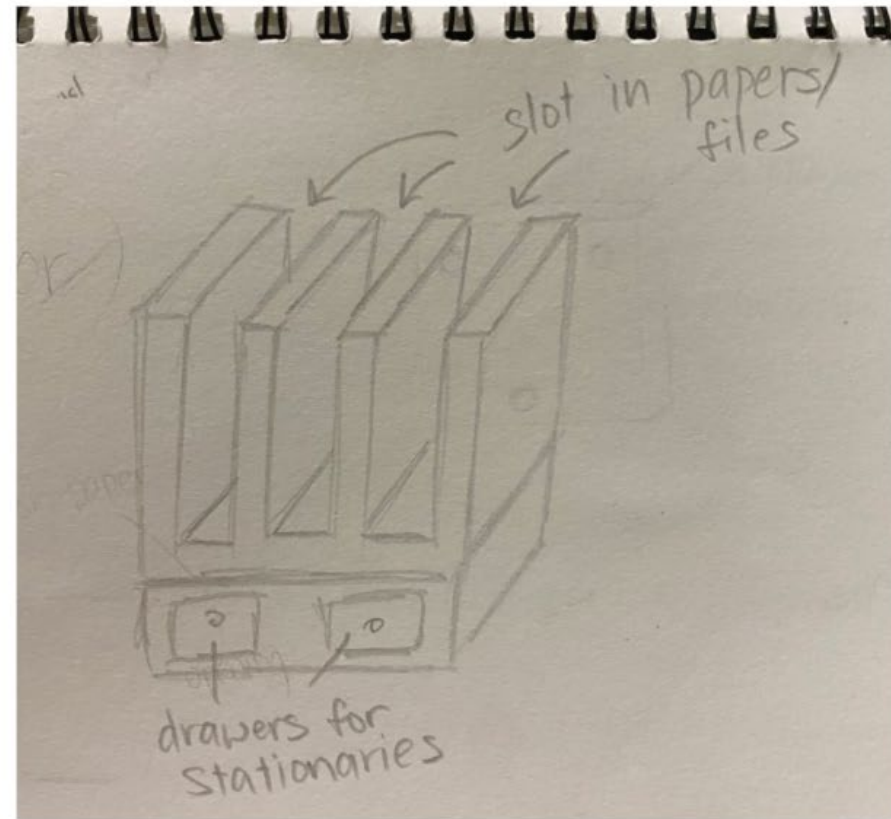
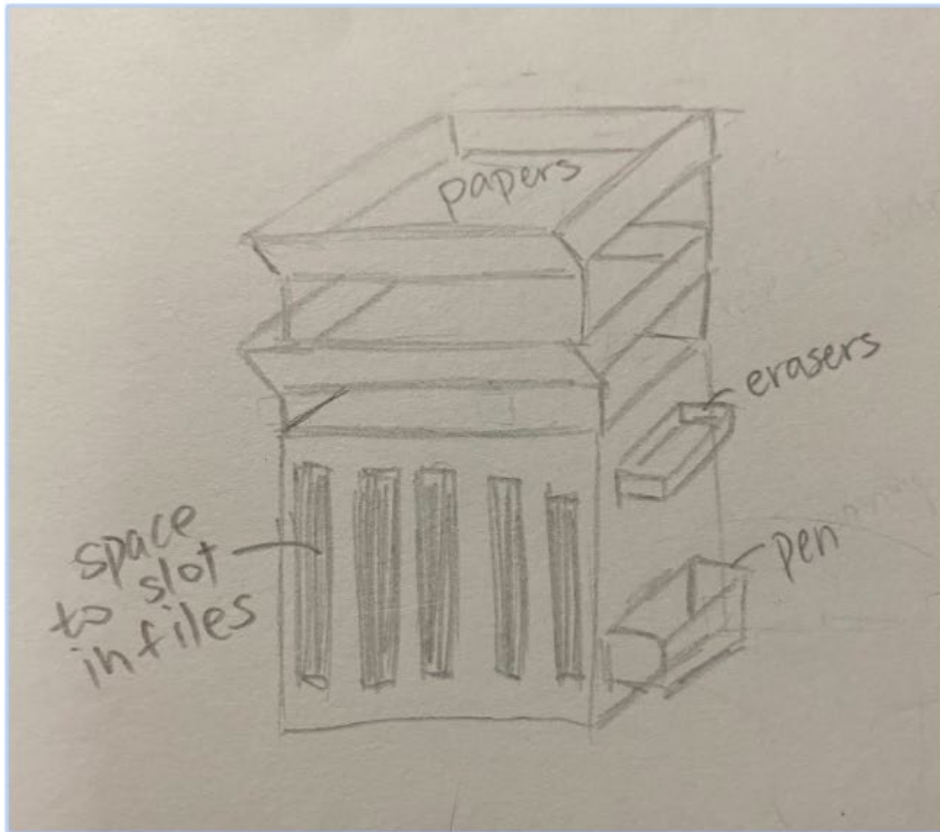
# Generating & Developing Ideas

## Possible solutions



# Generating & Developing Ideas

## Possible solutions



# Development Using Mockup



(front view)



(side view)



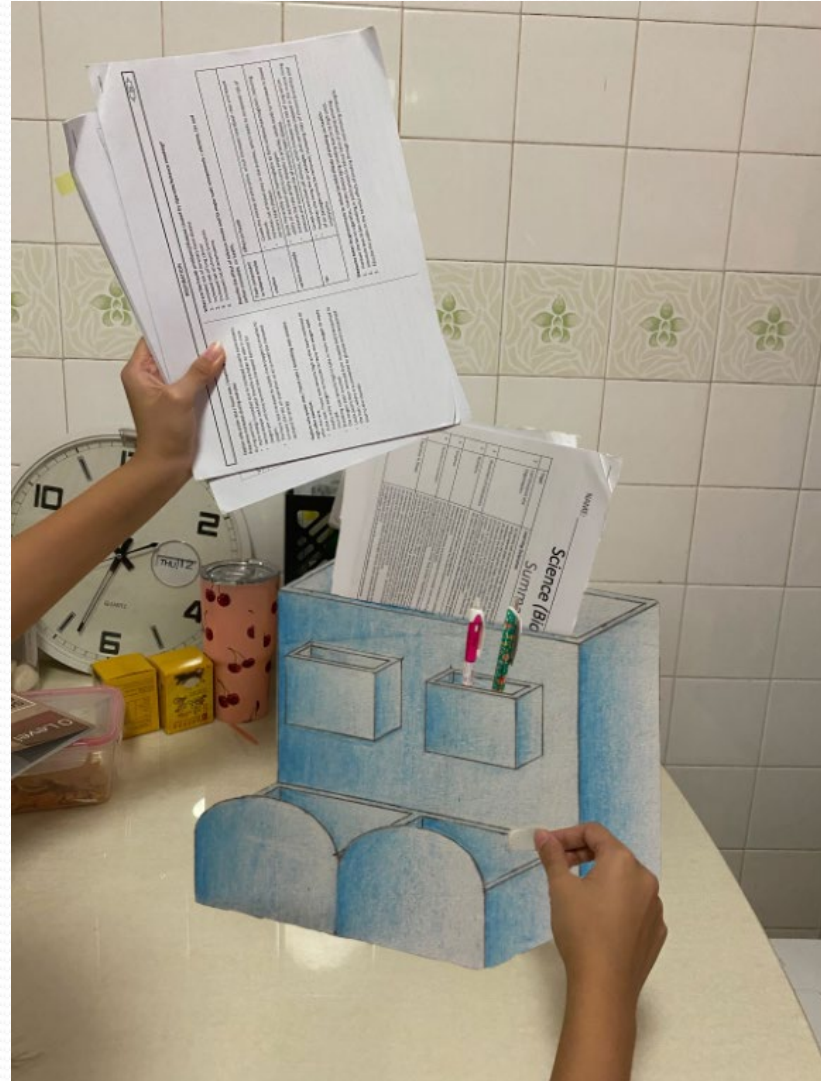
(front view)



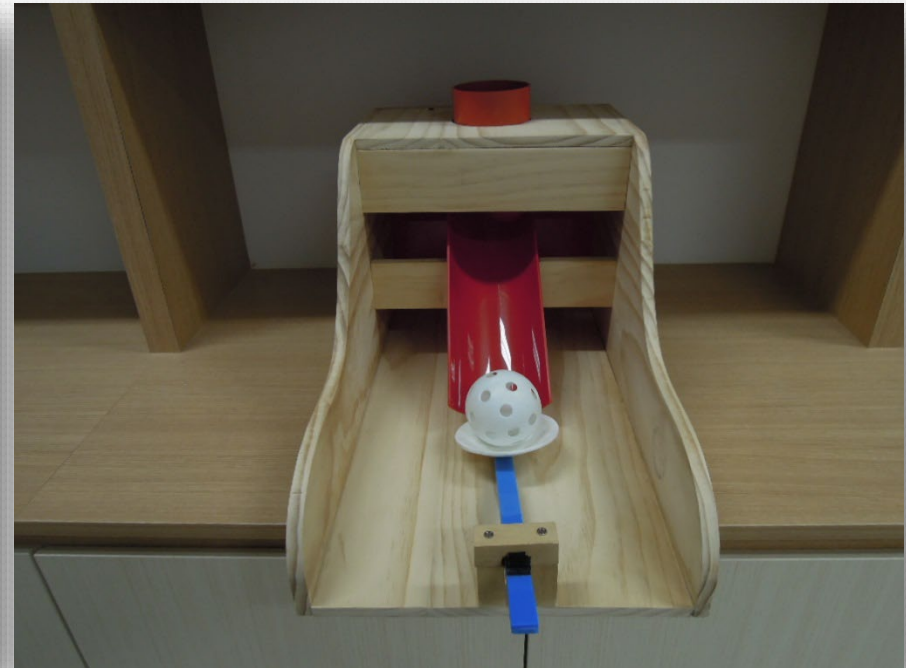
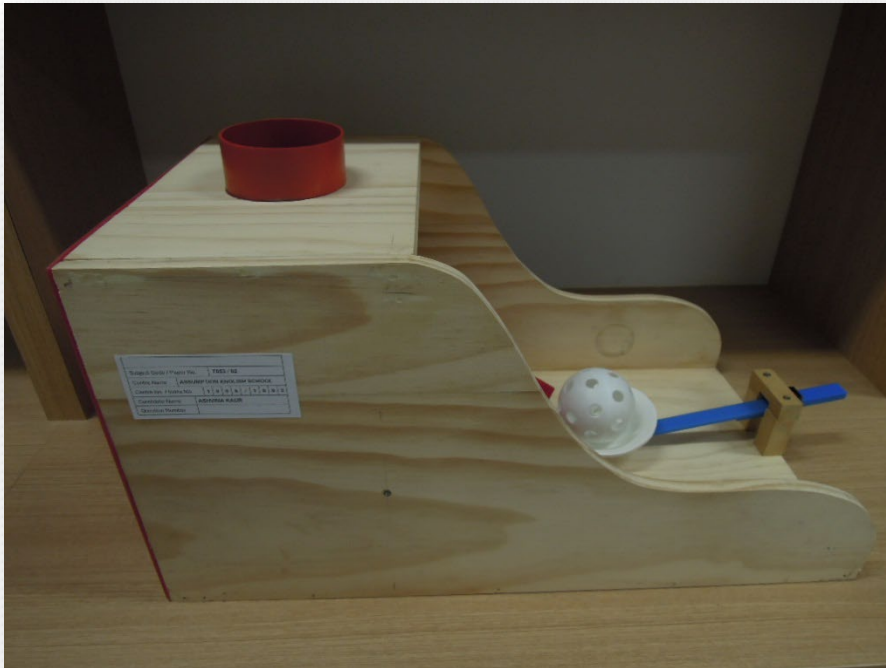
(side view)



# Presentation Drawing



# Prototype



# Prototype - Plastics



# O Levels

## Entry Requirements for JC

- $L1R5 \leq 20$ .
- D&T can be used as one of the R5.

# O Levels

## Entry Requirement to Polytechnic

- ELR2B2  $\leq$  26
- ELR2B2  $\leq$  28 (Nursing)
- D&T counted as one of B2 or R2 depending on course.