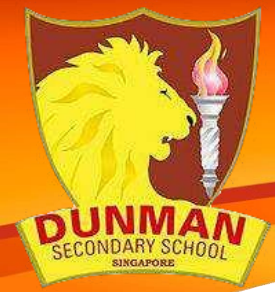


C&T Department

Subject offerings & Electives

For Sec 3 (2024)



Subject offerings

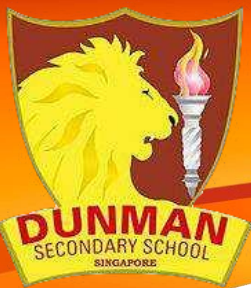
Design &
Technology
(D&T)
7059

3Exp
Students

Nutrition &
Food Science
(NFS)
6097

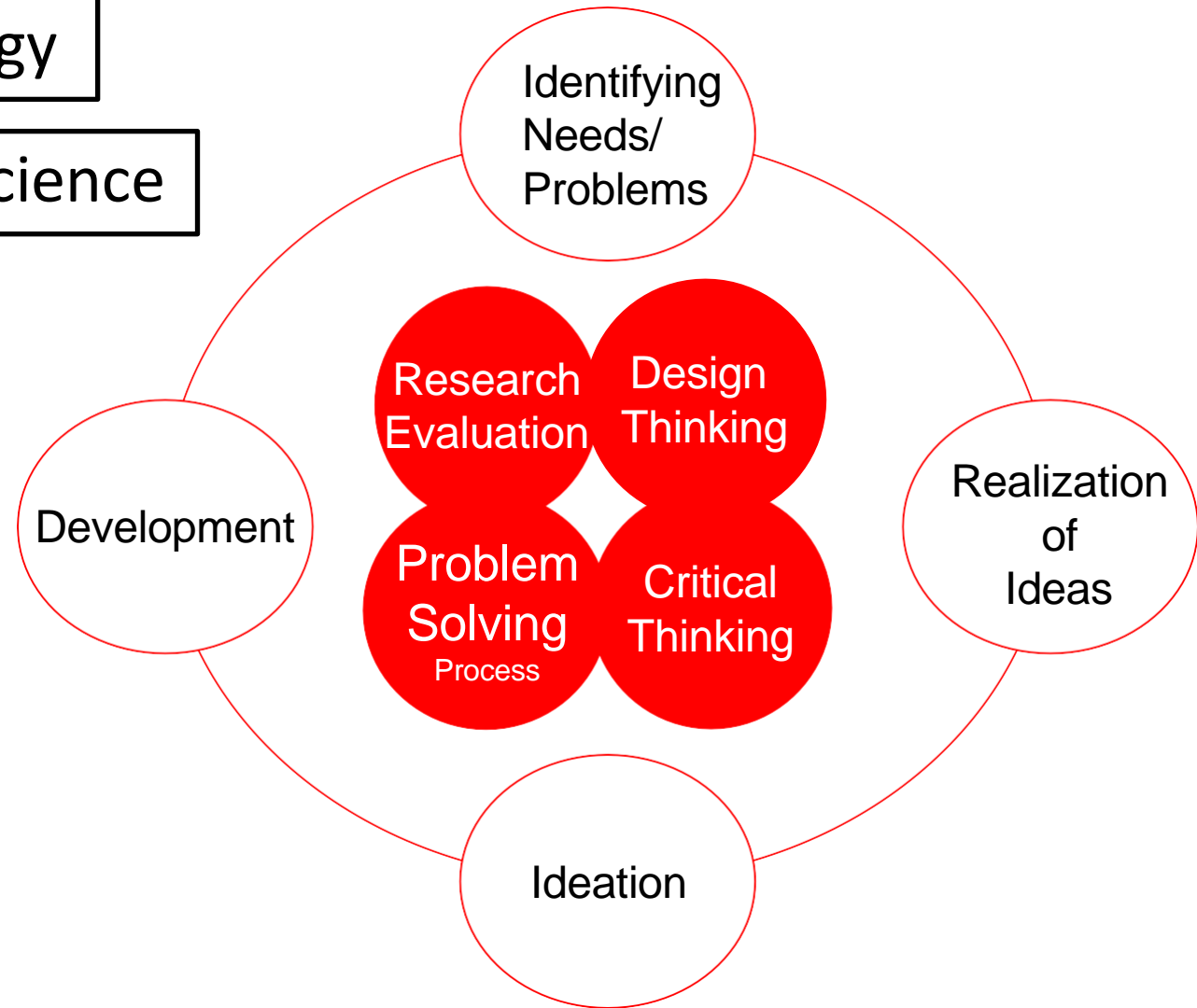
3NA
Students*

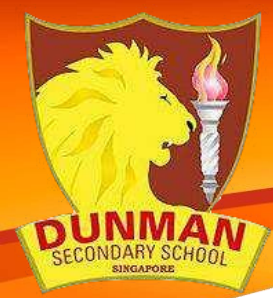
* 3NA student to choose between D&T or NFS



Design & Technology

Nutrition & Food Science



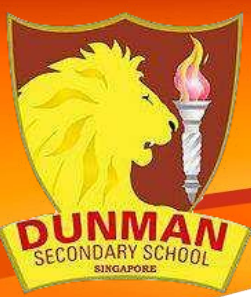


Design and Technology (D&T) - 7059

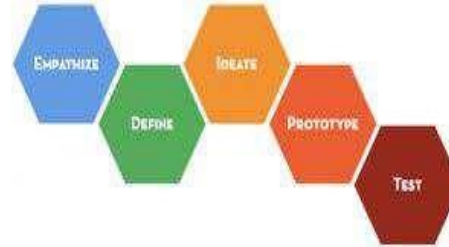
Aim: To foster values and develop dispositions for **enterprise, creativity** and **innovation** through research and exploration, idea and development and communication.

Assessment Objective:

To assess knowledge with understanding, design problem solving and realization of design solution.



Paper 1 (Theory) Written Paper – 40%



Design Thinking

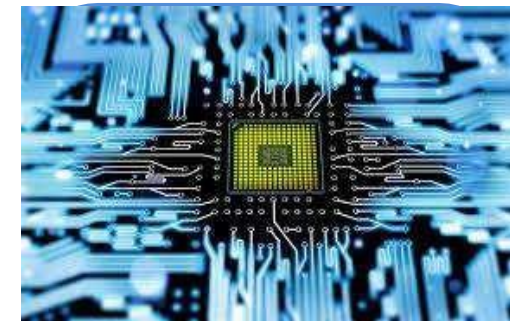


Structure

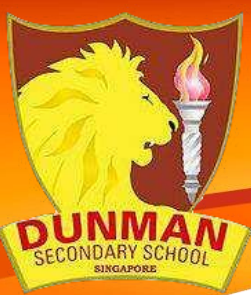
How Technology Works



Mechanism



Electronics



Paper 2 (Coursework) – 60%

Product Analysis

Classic Castle

Function: The classic castle is used as a play area for the children. It allows for both pretend play and active play. It allows children to use their imagination and expand their creativity while doing so and allows children to have fun. Some parents also like because the children occupied our hearts.

How it is used: Role playing: The children will pretend play with their friends and come up with their own stories and different scenarios of their own making. Active play: The children will slide, crawl and climb on the castle. There are physical activities.

Advantages:

- The castle is designed for first grade. It contains various parts that the children's parents have to assemble, this allows the child to occupy a large amount of space. Hence, when transporting the product, lesser time have to be made and therefore reducing carbon emissions.
- The castle is very durable. It is able to withstand the playing of the children. Hence it will not have to be replaced with a new one. Additionally, since it does not break easily.
- It allows the children to come out from their rooms and active play.
- Since it allows pretend play to be carried out, the user will be able to expand their imagination.
- The castle allows the children to play together, it allows the children to develop their social skills.
- It can occupy and attract the users' attention as it is based on a theme.

Disadvantages:

- The other children may get locked outside and unable to enter the castle since the locking mechanism is located inside the castle.
- The inside of the door does not have a good handle.
- The user may be able to open it properly and may experience frustration.
- The castle is quite small and can only hold around 3 children at once and more users, the area will be very crowded.
- The castle is very heavy and it is hard for the user to access the handle.
- There is a bit of sticking out of the castle on the edge of the slide. The user's hand may bump into it and get injured.
- The parents may find it hard to use the castle from the outside.

Setting Point: The castle is based on the medieval theme. It would blend in with the rest as it does not have a typical house shape. The overall children also like to learn more and explore about the world. This castle would help the children to learn about their own castle and the history of it in the past. The castle also allows for both active and pretend play and have fun while it. The castle also has physical needs of the user.

Material: Plastic. Plastic is weather resistant, so does not weathering when exposed to sun, rain, wind, etc. Plastic is also a durable material, so will not break easily and can withstand the playing of the user. Hence, there is a lesser need to replace the castle when it breaks.

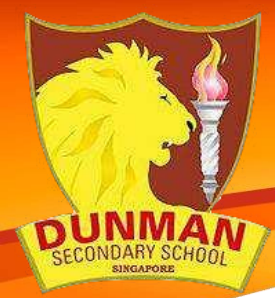
Cost-Effect and Safety: The door knob of the castle is also covered so the kids can't get it stuck. The door knob is covered so the kids can't get it stuck. The door knob is covered so the kids can't get it stuck.

Prototype

A dog's treat accessory. It functions as a toy for dogs that dispenses treats. To get the treat, the dog has to slide the ball along the track using its mouth, nose or paws to expose the tray containing the treat.

Journal

Prototype

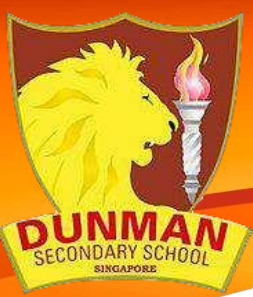


Nutrition & Food Science (NFS) - 6097

Aim: To develop candidates understanding of the concept of **nutrition**, meal planning, **link between diet and health**, and **principles** of food science.

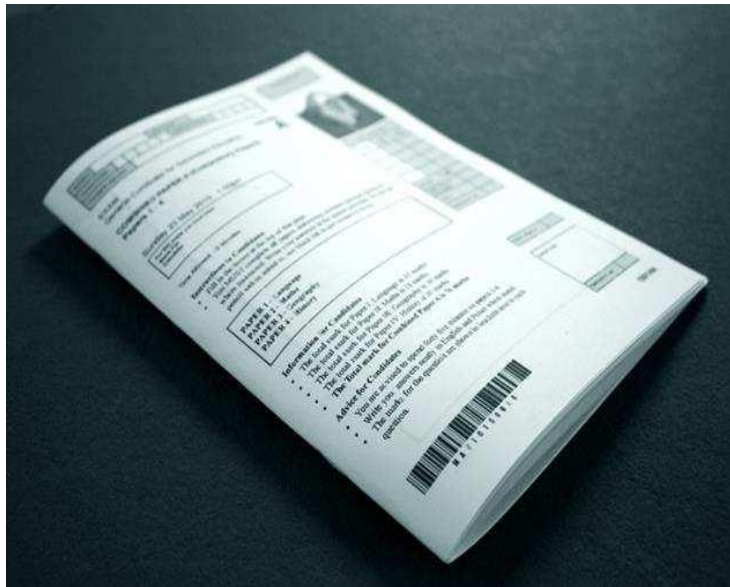
Assessment Objective:

To assess knowledge and Understanding, Analysis, Planning, Application and Evaluation

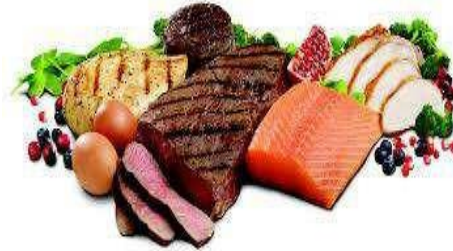


Paper 1

Written Paper – 40%



How food affects us?



Protein



Fats



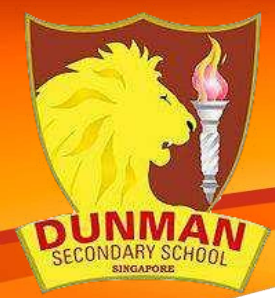
Meal Planning



Carbohydrates



Food Science



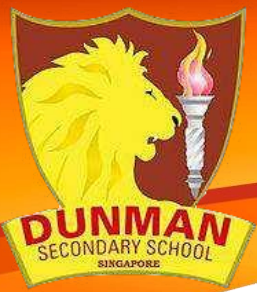
Paper 2 Coursework – 60%



Coursework

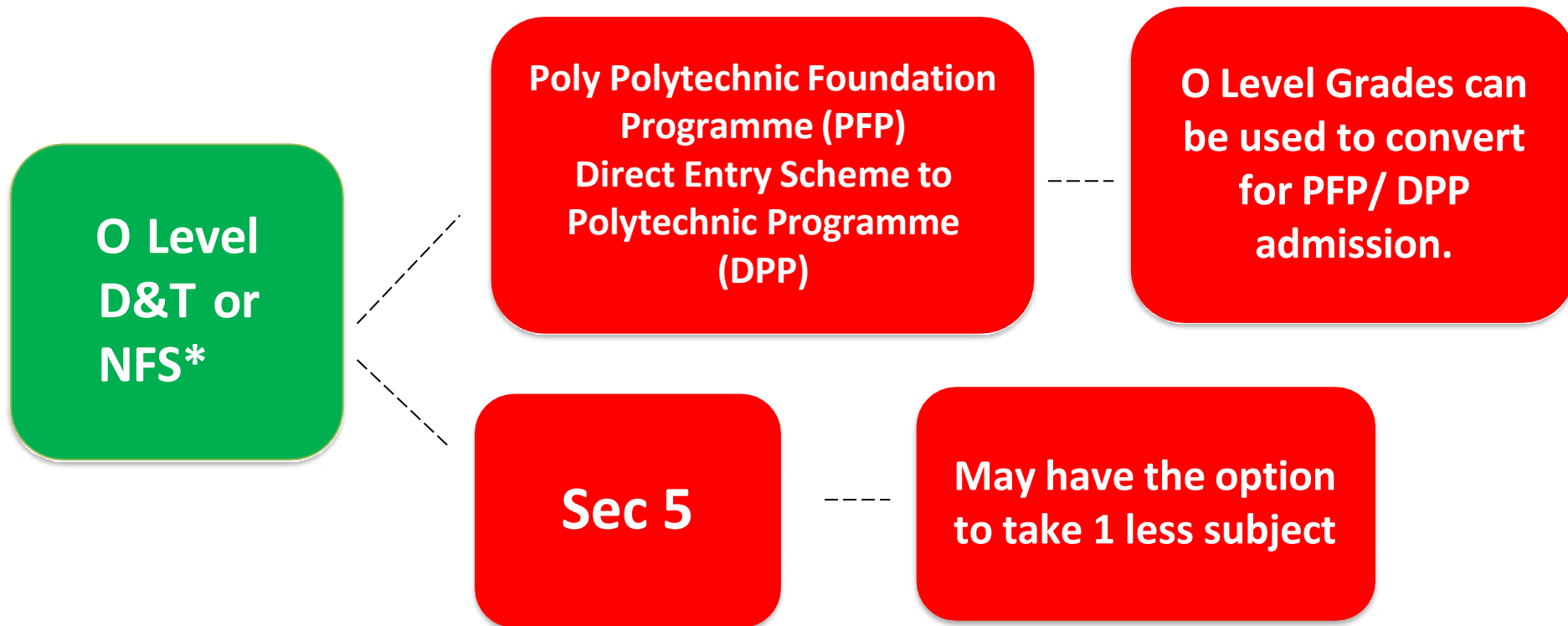


Dishes

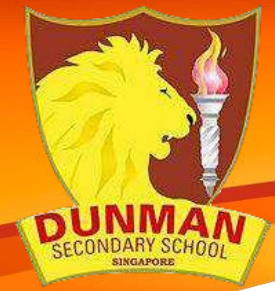


Out of subject offering

For 4NA Students



* Provided that student does not have more than 3 O lvl subject offerings.



Misconception & Reality

Misconception

D&T Coursework

NFS Coursework

TRAIN
to be
Technician

TRAIN
to be
Chefs

It is all
about
COOKING

Reality

It is
TIME
consuming

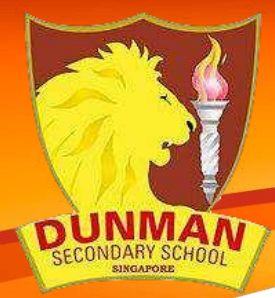
RELEVANCE
after
O Levels
JC ,Poly

JC
**Project
Work**

Poly
Engineering
Design
Architecture
Food Science
Any Course

RELEVANCE
To the
world

2024



D&T

NFS

The End

Click [here](#) for more information