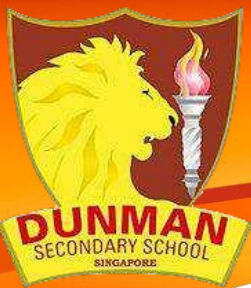
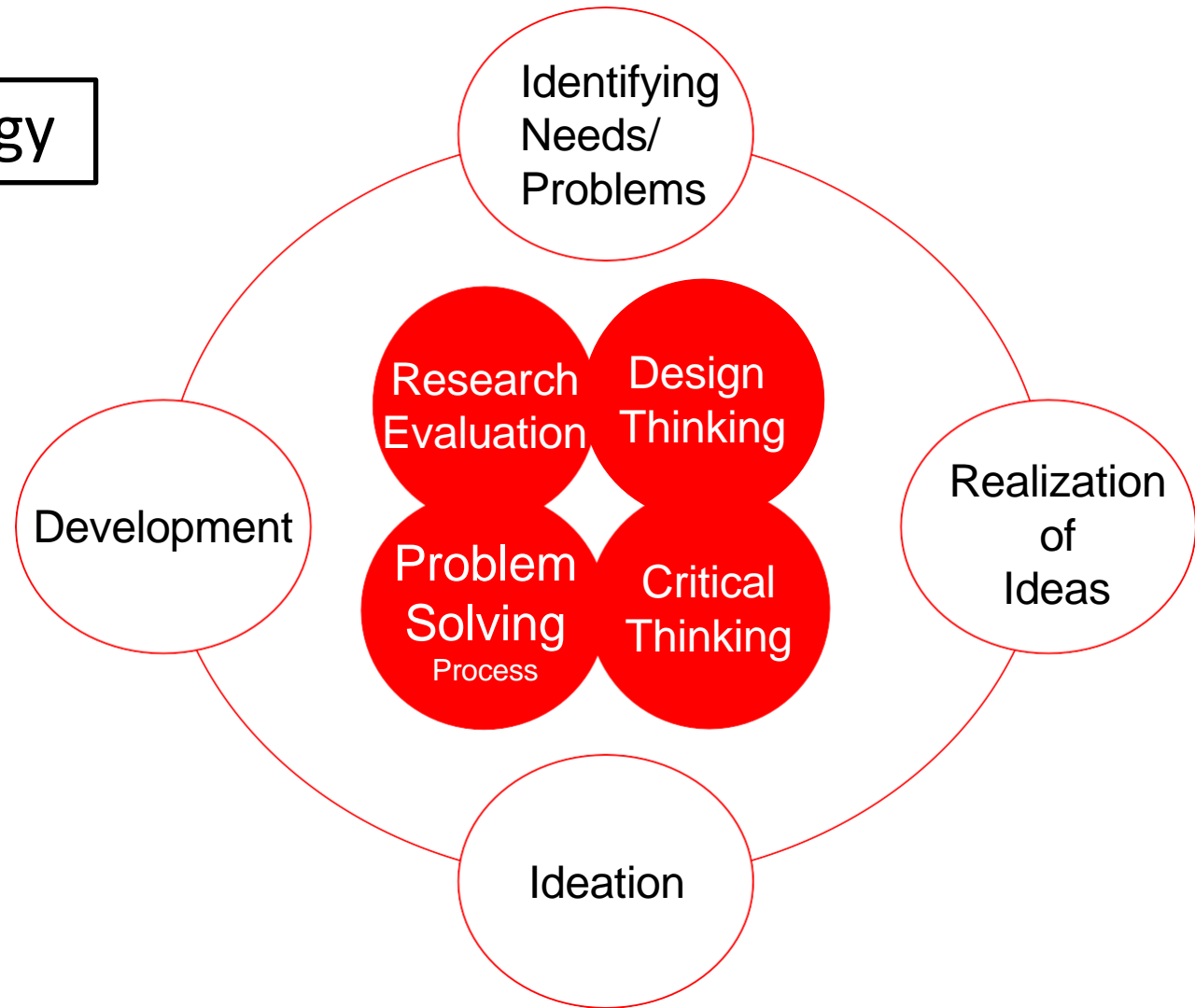


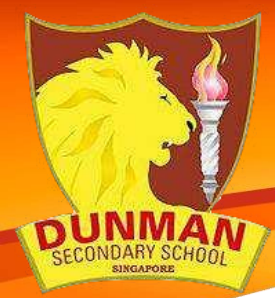
C&T Department

Subject offerings & Electives
For Sec 3NT (2024)



Design & Technology



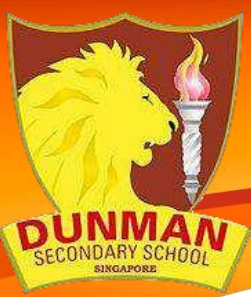


Design and Technology (D&T) - 7062

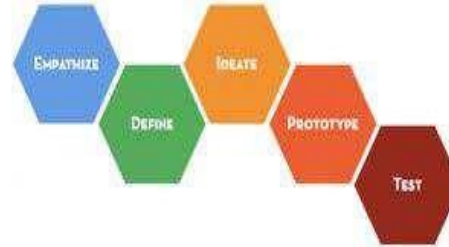
Aim: To foster values and develop dispositions for **enterprise, creativity** and **innovation** through research and exploration, idea and development and communication.

Assessment Objective:

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



Paper 1 (Theory)
Written Paper – 30%



Design Thinking

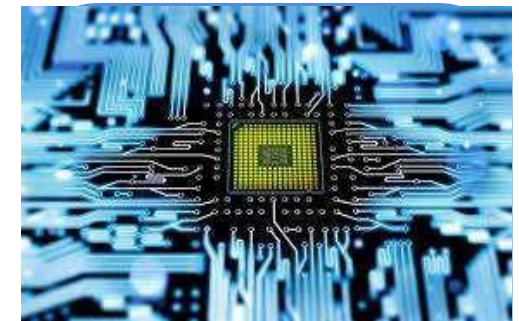


Structure

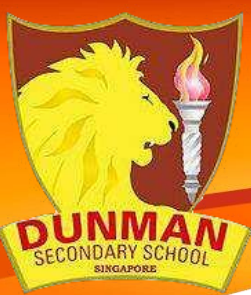
How Technology Works



Mechanism



Electronics



Paper 2 (Coursework) – 70%

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 act-play and expand their creativity while doing so and allows the children to have fun some exercise. It also helps the children occupied and happy.

How it is used: Role playing: The children will pretend play with each other and come up with their own story and different scenarios of their castle. 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 both outdoors and indoor play.
- Since it allows pretend play to be carried out, the user will be able to expand their creativity.
- 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 be placed in the school as it does not have a typical house shape. The parents, children also like to learn more and explore about the world. This castle would help the children to learn about their own castle. The castle is also made of plastic. It is easy to assemble and disassemble. The castle also allows for both indoor and outdoor play and can be used in many ways. The user may use the castle to play with their friends and family. The castle also has a slide and a door. The castle is made of plastic and is easy to clean. The castle is also made of plastic and is easy to clean. The castle is also made of plastic and is easy to clean.

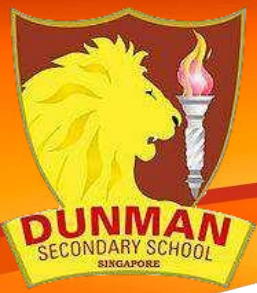
Material: Plastic is a sturdy material and is easy to assemble when compared to other materials. Plastic is also a durable material. It will last for a long time and can be used for many years. There is a lock to replace the castle when it breaks.

Costs and Safety: The door knob of the castle is made of plastic and is easy to use. The door knob is made of plastic and is easy to use. The door knob is made of plastic and is easy to use. The door knob is made of plastic and is easy to use.

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



Misconception & Reality

Misconception

D&T Coursework

TRAIN
to be
Technician

Reality

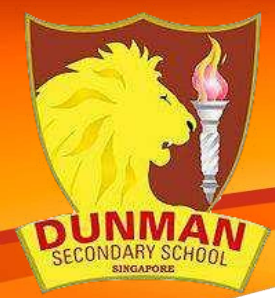
It is
TIME
consuming

RELEVANCE
after
N Levels

ITE, Poly
Engineering
Design
Architecture
Any Course

RELEVANCE
To the
world

2024



D&T

The End

Click [here](#) for more information