

# STEM

**Topic:**

**Project:**

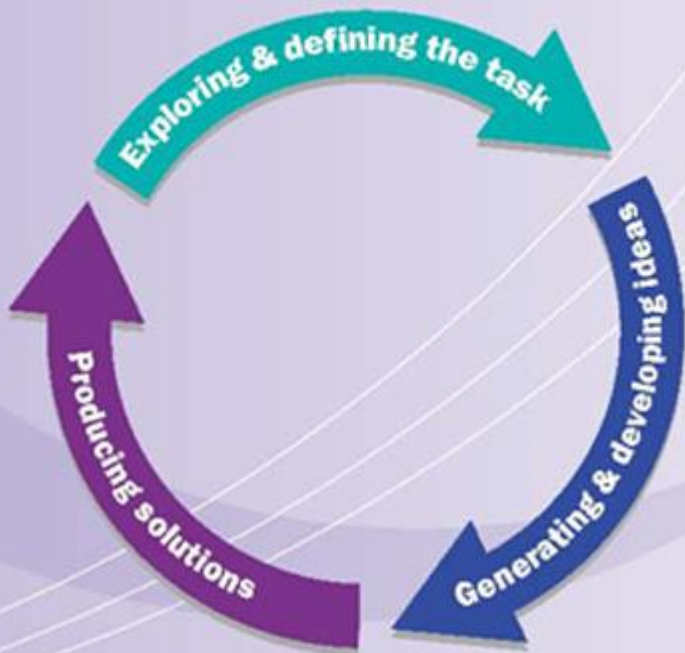
**Name:**

**Teacher/s:**

- 1.
- 2.
- 3.

**Class:**

Student design folio



# Exploring and defining the task

## Design Situation

(This describes where and how our solution will be used)

Write your Design Situation here:

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## Design Brief

(This is where we write down the problem that we need to solve)

Write your Design Brief here:

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## Timeline

This project commenced on

(date)

The project must be completed by

(date)



# Exploring and defining the task

**Research** (You can write stick pictures and draw here if you wish)



# Exploring and defining the task

**Research** (You can write stick pictures and draw here if you wish)



# Exploring and defining the task

## Criteria for success

List the criteria for success in the left column and the method you plan to use to test it in the right column.

How will you test your product to ensure that the final design achieves the design brief?

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How will you assess if your design and final product do as they are supposed to?

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# Ideas Generation

## Brainstorming

(list your ideas for a solution to the problem presented in the design brief)

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# Ideas Generation

Draw three (3) full page sketches of possible solutions. Pick ideas that you like, think will work or a just plain crazy.

## Sketch 1



# Ideas Generation

Sketch 2





# Ideas Generation

## Sketch 3



# Project Management

## Finance Plan (actual and proposed)

Item	Proposed Cost	Actual Cost
1 Example: Rubber wheels x 4	\$2.00 each or \$8.00	\$3.25 each or \$13.00
2		
3		
4		
5		
6		
7		



# Project Management

## Action Plan (proposed and Actual)

Week	Proposed Activities	Actual Activities
1	Example: Drawing up the initial sketches and plan to make the toy.	Watched a video Did some experiment on movement Did some basic sketches of three possible designs
2		
3		
4		
5		
6		
7		
8		
9		
10		



# Project Management

## Materials List

Component	Size	Quantity Per Unit
Plastic Propellers'	200mm long	x3



# Project Management

Evaluation	Discussion	Proof
Does the final product meet the design brief?		
The product should also meet the criteria to evaluate. How did it achieve this?		



# Evaluation

## Video evaluation

Prepare a script to read out for the evaluation of your solution.

Record your evaluation using Lenovo Easy Capture and the webcam.

- Make sure you comment on the following
- Function
- Aesthetics
- Cost
- Environmental Impact
- Reason It meets needs of target market
- Challenges faced during design and production and solutions you found for these challenges.

Add the video and this Portfolio with your name as the file name and send it to your teacher.

