

# BYOB @ TP

A Sustainability Campaign Proposal by:  
Group 1



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01

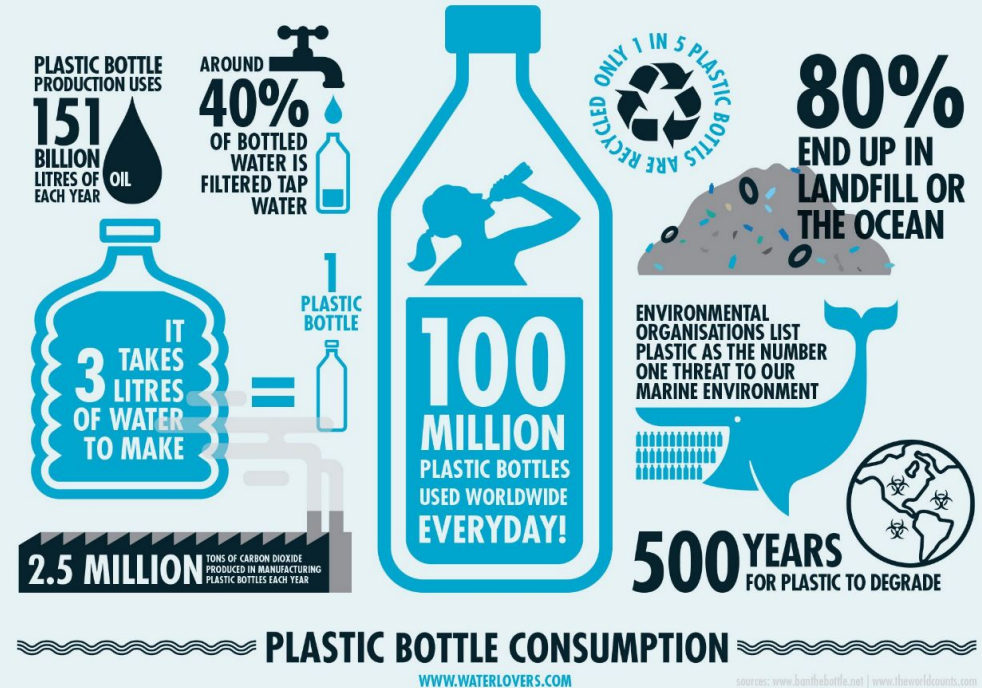
## Problem

Why single-use plastic bottles are harmful for the environment



# Effects of Plastic on the environment

1. Pollutes oceans
2. Harms marine life
3. Takes centuries to decompose



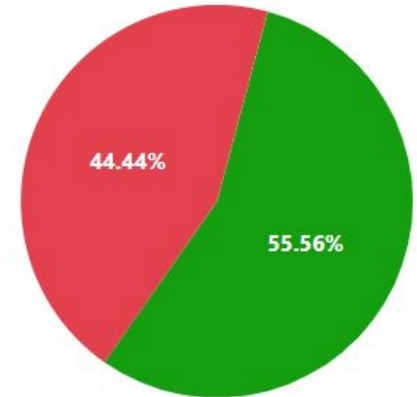
# Are TP Students playing their part?

**90.3%** of Students are aware of this issue...  
Yet **ONLY 55.6%** of them use a reusable bottle!

Are you aware of the importance of using reusable materials? Do you bring a bottle to school?

💡 Are you aware of the impor... x

● Yes ● No



# WHY

1. Inconvenience

2. Forgetfulness

3. Never thought of it

## Main reason for not using a bottle

It's inconvenient to bring to school

I often forget it at home

12

I never consid...

I have concer...

I'm t...

I prefer bottle...

15

2

1

# 02

## Hypothesis

“ Students in Temasek Polytechnic are not consistently bringing reusable water bottles to school.”





# OUR GOALS

1

Make it more worthwhile for students to adopt the use of reusable bottles.

2

Help students remember to bring their bottles outside.

3

Enable bringing reusable bottles to school to be convenient.





Our objective is to reduce single-use plastics usage within Temasek Polytechnic to nurture a sustainable and environmentally responsible community.





# 03

## Solution

How we aim to solve this  
issue.

The image features a dark blue background with a subtle pattern of lighter blue, irregular shapes resembling water droplets or bubbles. A white rectangular border frames the central text. In each of the four corners, outside the border, there are several realistic-looking water droplets of varying sizes, some with highlights and shadows, giving them a three-dimensional appearance.

**“How might we enhance  
students’ commitment to  
using reusable water  
bottles?”**



**Idea #1: Award students SEAL points for their consistent commitment in bringing a water bottle to school.**

**If a student brings a bottle for 85% of the school semester, they will be awarded SEAL points.**

# Solution

## Worthwhile

Students get rewarded with SEAL points for adopting a good habit.

## Memorable

Students will be convinced to bring a bottle to school for SEAL points.

## Convenient

Students bring an empty bottle to school and refill it at water dispensers. An empty bottle is light and easy to carry to school.



# QR Code Attendance Taking

To recognize that a Student brought a reusable water bottle for the day, they have to scan a QR Code beside any water dispensers and submit their attendance.

This should be convenient as they have to find a dispenser to refill their bottle at the start of the day.

The attendance form requires them to enter they full name, admin number, a screenshot of their face and a water bottle, and consent with the rules. It is a very short survey, hence very easy to incorporate into their daily routine.

A student requires 85% of school days to receive the SEAL points. Violating any rules will result in immediate disqualification without warning.

**BYOB Campaign 2023 Semester 2**





# 04

## Campaign

How we plan to  
implement and address  
technical difficulties



# Setting Up Campaign

1. **Get approval for Campaign and confirm SEAL Points award.**
2. **Promote event:**
  - Post on social media to spread awareness of campaign.
  - Paste posters around the school
3. **Attendance Data Collection:**
  - Paste a poster with QR Code at all water dispensers in TP.

# Verifying Participation

## **Data Cleaning Steps:**

- Remove "I do not consent" records.
- Match school email with admin number (ignore case).
- Delete records with mismatched admin numbers.
- Randomly keep 1 record per day.

## **AI Image Classification Recognition:**

- Verify presence of a face and reusable water bottle.
- Delete records without both objects.
- Match faces with the student database.
- Detect suspicious water bottles and identical bottles.

## **Manual Review and Blacklisting:**

- Review flagged records with suspicious behavior.
- Blacklist students for rule violations.
- Deleted records for blacklisted students.

## **Attendance Record Analysis:**

- Utilize Excel data analysis features.
- Shortlist students with 85% attendance for SEAL points award.



# THANKS!

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