

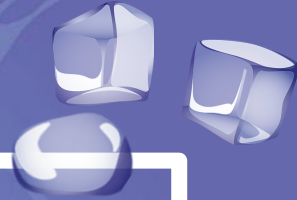
BYOB @ TP

A Sustainability Campaign Proposal by:
Group 1



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01

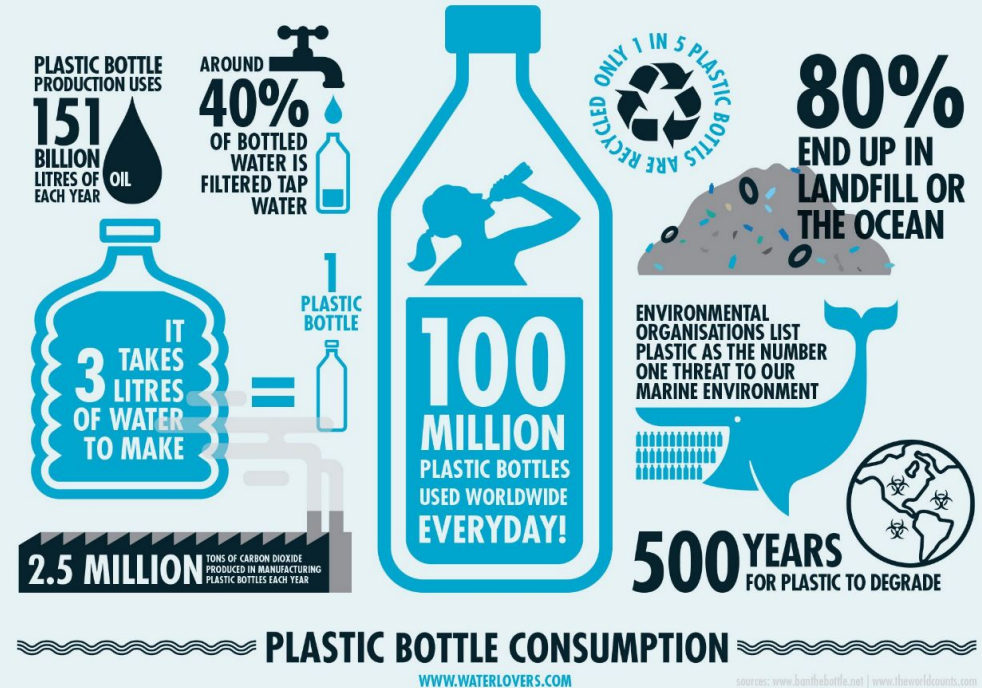
Problem

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



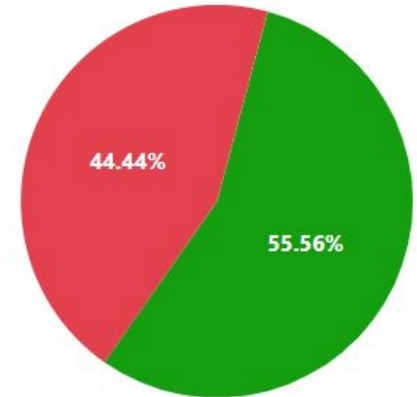
Are TP Students playing their part?

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 ripples. A white rectangular border frames the central text. In each of the four corners, outside the white border, there are several realistic-looking water droplets of varying sizes, some with highlights and shadows, giving them a 3D 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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