

THE PAPER PALS

WE SERVE TO PROTECT THE ENVIRONMENT



THE TEAM

The Paper Pals is a team of young social entrepreneurs who wish to save the environment by collecting used paper and reusing paper which is printed on one side, to reduce total paper consumption.



Aarush Garg

FOUNDER



Maxwell Leung

DIRECTOR



THE PROBLEM

- High Carbon Dioxide Emissions
- 4,200 tonnes of paper waste per day
- Only 30% of all paper is recycled
- Air quality ↓, Paper Waste ↑



DID YOU KNOW?

One ton of recycled paper can save:

1. 17 trees
2. 380 gallons of oil
3. 3 cubic yards of landfill space
4. 4000 kilowatts of energy
5. 7000 gallons of water



OUR VISION

An environment with bare trees, no greenery → Thriving sustainable environment full of greenery and teeming wildlife



APPROACH

REDUCE

- Print less paper; use more online documents



REUSE



RECYCLE



- Remember to remove staples and not to recycle soiled/stained paper

THE SOLUTION

Reducing total paper usage and wastage by reusing paper used on only one side, and recycling paper used on both sides



ENGAGEMENT

1. Appoint class sustainability leaders to check the progress of recycling bi-monthly or quarterly
2. Monthly talks in class periods or assemblies emphasising recycling
3. Building on current Extracurricular activity: Science and Sustainability



Science and Sustainability
Learn, Contribute and Make an Impact
Wednesday Lunchtime Lesson 8 - 1:30 to 2:00
Open to K07-K12 and Y07-Y13 Students
Run by Aarush, Maxwell, and Matthew (Y11)

Overview

1. Raising awareness about the significance of sustainability with respect to the UN SDGs
2. Learn about the pollution and ways to alleviate in Hong Kong from a guest speaker from CAN
3. Learn about the impacts of our actions and how renewable energy can help in today's world
4. Work with professional organisations such as CAN and UNITAR to gain valuable experience
5. Take part in a live school-wide recycling project to make our school more sustainable

Create your own Project!
Learn innovative methods to help make the earth a more sustainable place and launch your own initiative to help the society!

Gain Certification from a well recognised organisation

**THE FUTURE IS NOW!
SCIENCE FOR ACHIEVING SUSTAINABILITY**



HOW IT WORKS



01

Collection of Paper for Recycling

Paper collection centres in smart bins which have a weight sensor to calculate how full the bins are

02

Paper Printed on the other side

When using recycled paper, you save 100% of the tree, 31% of energy, 53% of water and you reduce solid waste by 39%

03

Reduction of total paper usage

As paper is printed in both sides, fewer sheets of paper will be used, and hence the issue of trees cut down and the load on rising landfills due to municipal solid waste will decrease.



INCENTIVE BONUS



LEADERBOARD				
01	PLAYER NAME	4500	00	
02	PLAYER NAME	4300	00	
03	PLAYER NAME	4200	00	
04	PLAYER NAME	4100	00	
05	PLAYER NAME	3900	00	

01

Establishment of Paper Points

Those who recycle certain amounts of paper are given paper points. These can be redeemed in the school cafeteria.

02

Monetary Incentive

If you don't print out paper, any budget you have remaining will be added to the budget for cafeteria purchase

03

Sustainability Champion Leaderboard

Ecofriendly merch highlighting the RRR policy will be given to the top scorers on the paper points leaderboard. In addition, their name will be displayed on the school boards as well.



LOGISTICS MODEL

01.

COLLECTION:

The most important step of recycling is to first establish a location to collect paper for recycling



02.

TRANSPORTATION:

After paper has been collected, it needs to be transported to recycling facilities



03.

RECYCLING:

The money from government of \$0.75/kg of paper will be used for covering smart bin and volunteer cost, as well as to spread awareness



LOGISTICS MODEL

The Paper Pals use existing delivery frameworks such as GoGoVan to help transport their recyclable materials.

Get a fee estimation

Need more waypoints? [Download our app](#)

From
German Swiss International School, ...

To
保得信移民專家 Protection Limited, ...

[Estimate fee](#)

The map displays a route starting from the German Swiss International School in the Central district and heading towards the Environmental Protection Trading Limited facility in Wan Chai. Key landmarks like Magazine Gap and various roads like Kennedy Rd and Garden Rd are visible.

TRANSPORTATION:

Trucks using the GoGoVan service will be sent to the nearest paper recycling facility belonging to the company Environmental Protection Trading Limited in Wan Chai. Each visit will bring around 400-500 kg of paper, and cost roughly HK\$75. This gives \$225 back, as you get HK\$0.75 for each kg.



	Causeway Bay	Chai Wan	Wan Chai	Central
Causeway Bay	60	80	65	75
Chai Wan	80	55	90	95
Wan Chai	65	90	60	70
Central	75	95	70	60

MARKET SIZE

Paper Pals aims to target the most important stakeholders in society: students and children, as the future generation and changemakers

1.3m+ tons

Total Paper Disposal in Hong Kong's Landfills



530k+

Students Registered in Schools who can help recycle



25 tons

Amount of paper which is used in schools every year



AIMED IMPACT

Paper Pals aim to reduce the amount of paper usage in schools and make a real impact on the environment as it reduces the impact of global warming and climate change

10 tonnes

of papers recycled and saved annually



40%

of all paper printed on both sides



250 trees

saved every year



ROADMAP

This is the aimed roadmap for the social initiative Paper Pals. In the next year, the initiative aims to join with other schools, recycle 10 tonnes of paper and place smart bins.

MARCH 2023

Contact other schools on Hong Kong Island to join initiative

DECEMBER 2022

First collection begins; smart bins placed all over German Swiss International School

DECEMBER 2023

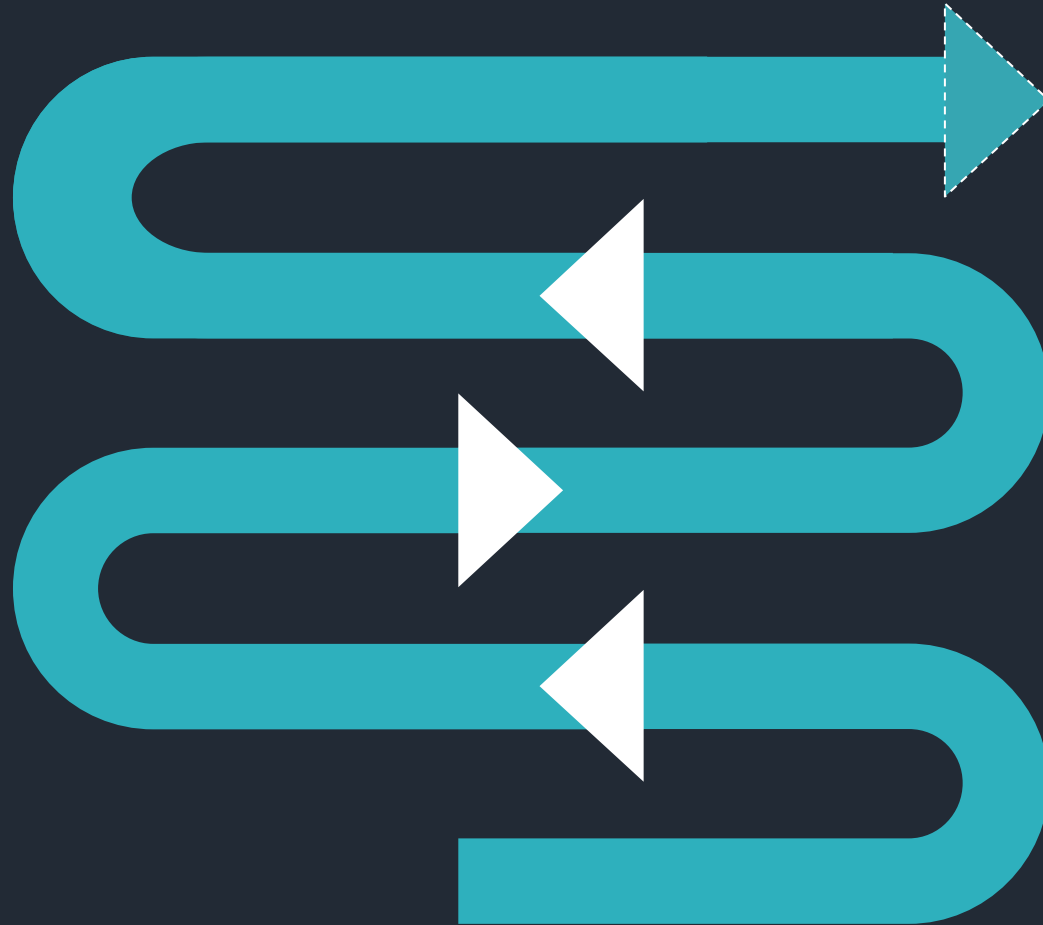
10 tonnes of paper recycled

FEBRUARY 2023

First batch of paper is transported to the recycling facility in Wan Chai

NOVEMBER 2022

Launched Paper Pals



THE ASK



Financial Partnership

Initial cost to set up smart bins and get money for upfront transportation cost



10 hours of mentorship

To discuss bottlenecks with experts in recycling and how to get past potential issues in collection and transportation



Social Media Awareness

Expand the project horizons to more students in Hong Kong through social media platforms



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Contact Name: Aarush Garg

Email Address: gargaarush2006@gmail.com

Phone Number: +852 6110 4698