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Introduction

Greeting

Dear Students,

Thank You for taking up the Beach Cleanup project, part of the Applied Environmental Applied Studies Class. This is a self-directed class, so therefore your goal as a student is to investigate and address environmental problems that capture your attention. The next step is to combine your ideas into one feasible project. After the project is chosen, it is your responsibility to make the appropriate implementations that would lead to a resolution of the issue that you chose.

The Beach Cleanup is one of most beneficial and well-praised environmental event that has been organized annually in DAIS from the last two years. It has brought together the DAIS community in collaborating with each other. The students improved their linguistic skills and interacted with new people. In addition, this event greatly raised the awareness of the people living in this community. More individuals are being cautious and cognizant of what is going on in their environment. We are now looking forward to seeing you guys carrying on the tradition and organizing another successful Beach Cleanup.

This manual consists of information that is relevant to the Beach Cleanup. There are a set of documents that state the significance of this event, the description of the project, the outlines of the action plans taken, etc. Others material include graphs and visual representations of the categories of trash collected on the beach during the event. We hope that this manual can be of help when you organize the Beach Cleanup in this upcoming year.

Last year, the Second Annual Beach Cleanup was again a colossal success earning many praises and compliments from both the student body and school administration. Many of you who were present last year and attended this event can see the significance it carried. We encourage each and every one of you to put in your best effort in organizing another yet amazing Beach Cleanup.

Cheers,

Sai Tian, Sen Siang Ong, Shreya Singh
Organization team of the Beach Cleanup

Overview

Description on the project

The Beach Cleanup is a collaborative event organized by the DAIS Environmental Studies Class with the core intention to educate schools in Golden Pebble Beach area and Dalian community about the scale and serious consequences of the beach debris problem. It is also the first step of every year to ensure the residents of Golden Pebble Beach area can enjoy a cleaner coastal environment. Moreover, this activity provides a great opportunity for DAIS international students to interact with students from the Chinese local school, to make new friends, and to practice their oral Chinese and English skill.

This activity requires considerable cooperation among students. Students are divided into groups of three. Each student is responsible for their own task. One student is required to pick up the trash, while another student holds the plastic bags. The third person in each group is responsible for keeping records for the trash that is being collected, and categorize them on the data card.

After the activity, members of the DAIS Beach Cleanup committee would take time to analyze the data, make visual presentations to communities in Dalian area. Perhaps the most important task is to send the data records to all relevant costal environment associations, and campaign sea changes by all possible and necessary means, such as creating and posting videos on the Internet.

We sincerely hope through this activity, students would raise awareness regarding the costal debris problem and put effort into promoting a better coastal environment.

Outline of the Action Plans

Specified Task:

The Beach Clean Up Group is responsible for organizing and executing the Beach Clean Up program for Dalian American International School. Other than learning planning and organizational skills, the purpose of the Beach Cleanup group is to select different students in a group as team members who will have to learn to work together in order to maximize work efficiency. Designating all work to a single member is strongly prohibited as the workload from projects can be massive and will be too overwhelming for a single individual. To work at optimal efficiency, project work should be divided among each of the group member. As members of the Beach Cleanup Group, we want to create a pro environmental community that will follow good environmental habits.

Here is the basic guideline for the Beach Clean Up Process:

- 1) Confirm that you have the principal's approval to execute project
- 2) Make sure that you have sufficient funds (business club will provide some funds)
- 3) Calculate how many plastic bags, gloves, etc. will be necessary (better to have more than less)
- 4) Confirm what level of students are allowed to participate. (Eg. Secondary and elementary school)
- 5) Optional- After the Beach Clean Up, group may choose to set up a celebration after school for the participants to relax and have snacks (main priority is still Beach Clean Up)

Time Horizon:

Time schedules should be thought through carefully. Ideally the best times for the Beach Cleanup would be during Spring or Autumn when the weather is not hot nor cold. All planning regarding date and time should be discussed with the class administrator (Dr. Baldwin) before speaking with Dr. Rosevear to finalize the project.

Resource Allocation:

Funds of approximately 2000 RMB will be required in order to buy all necessary utilities and equipment for the Beach Cleanup. The Beach Cleanup Committee is affiliated with the Business Club in Ms. Ang's class located on the second floor. The business club will help supply some funds for all projects as well as help promote the event by setting up posters and setting up DAIS Live advertisements.

Significance of the Issue

The three main goals of the Beach Cleanup are to allow students to collaborate with students from local school, to cooperate with peers and to raise awareness of the beach waste by cleaning up the beach.

As an international school with students of diverse ethnicities, one of our pivotal mission statements is to promote multicultural acceptance and understanding. By participating in the Beach Cleanup, we are fulfilling the school's mission statement of being open to other cultures. Although our schools have Chinese HuaMei students, they live within an international community therefore they have integrated amongst the students and are more understanding of our culture. Students of local Chinese schools have fewer opportunities to approach students of different races therefore they may not understand the cultures of different countries. The Beach Cleanup event allows students from both DAIS and the local Chinese schools to have more exposure to one another's cultures.

The Beach Cleanup also encourages students from DAIS and HuaMei to have the chance to collaborate with peers that they seldom interact with. Students can also improve their communication skills by speaking or learning a foreign language. Through this event, students would have chances to meet new people and therefore establish new friendships.

Most importantly, the main priority of this project is to raise awareness among Jinshitan and Dalian community about the scale and serious consequences of the beach debris problem. Polluted coastal water costs the global economy \$12.8 billion a year in death and disease. 100000 sea mammals and countless fish are killed due to sea pollution as well as waste drifted from the Beach. Currently this is a small project based only in Dalian, but we are hoping in the future to expand this project to other coastal provinces in China. If this project is able to gain enough recognition from other ecofriendly schools and the general public, we may be able to execute this project at a larger scale and help reduce the pollution in China.

Planning Calendar

DAIS Beach Cleanup Committee Planning Calendar- Quarter 2

SMART Goal: Educate schools and Dalian community regarding the scale and serious consequences of the global sea debris problem base on the data cards that we had collected during the DAIS second annual beach cleanup.

Standard of Success

<p>October 29-November 2</p> <p>Goal: Calculate the beach cleanup data cards</p> <p>Tasks</p> <p>Synthesize all the data cards into one document. Calculate the mode and average number of debris.</p> <p>Measures of Success</p> <p>Finish the calculation of the data cards. Create a table with all the information and statistics.</p> <p>Progress:</p> <p>Completed on time</p>
<p>November 5-9</p> <p>Goal: Analyze the beach cleanup data cards.</p> <p>Tasks</p> <p>Create a visual representation for the data that is collected and analyze the most abundant costal debris in Godden Pebble Beach.</p> <p>Measures of Success</p> <p>Complete analyzing the data cards and put it into portfolio.</p> <p>Progress:</p> <p>Completed on time</p>
<p>November 12-16</p> <p>Goal: Contact Hong Kong Costal Cleanup Organization and other associations for the possibility of adding our data into their archive. Start to write the TED TALK for Jinshitan coastal environment.</p> <p>Measures of Success</p> <p>Complete the second part of the project manual—overview.</p> <p>Assign roles to each group members—speaker, scriptwriter, and producer.</p> <p>Progress:</p> <p>Second part of the project manual has been completed. However, we decided to change the TED TALK plan into a letter to the local government .</p>
<p>November 19- 23</p>

Goal: Revise the script for TED TALK and continue working on the portfolio. Continue contacting Hong Kong organization if it is not finished.

Tasks

Make necessary changes to the script, and try to finish the portfolio.

Measures of Success

Complete the final draft of the script, and the speaker should start practicing for the presentation.

Progress:

Portfolio has been completed on time. We have just started to prepare for our presentation this week.

November 26-30

Goal: Get prepared for the TED Talk.

Tasks

Speaker should practice presentations skills throughout the week and make sure he has fully memorized the content. Producer needs to get prepared for the video taking part, and think of creative ways of recording this TED Talk (where do we want to record it? And do we want audience?).

Measures of Success

Do a practice round of the TED Talk in class and ask for advice and suggestions from audience.

Progress:

Due to time concern, we have changed our plan into writing an informative letter to the local government regarding beach debris problems. And we have decided to write the letter in second semester, since we are running out of time. We will be working on our portfolio reflection on our Google sites until the end of the first semester and preparing for our in-school presentation.

December 3-7

Goal: Present and record the TED Talk and post it onto the Internet and DAIS LIVE.

Tasks

Post the video on both American and Chinese websites, such as TED, Youtube and Youku. Our goal is to attract as much attentions as possible.

Measures of Success

Anyone would be able to see our video on the internet.

Progress:

Due to time concern, we have changed our plan into writing an informative letter to the local government regarding beach debris problems. And we have decided to write the letter in second semester, since we are running out of time. We will be working on our portfolio reflection on our Google sites until the end of the first semester and preparing for our in-school presentation.

December 10 -14 **Final week—end of the first semester.**

Goal: Contact all relevant beach cleanup organizations and try to post our video on their websites.

Tasks

Contact beach cleanup organizations and check with them if they would like to post our video on their websites.

Measures of Success

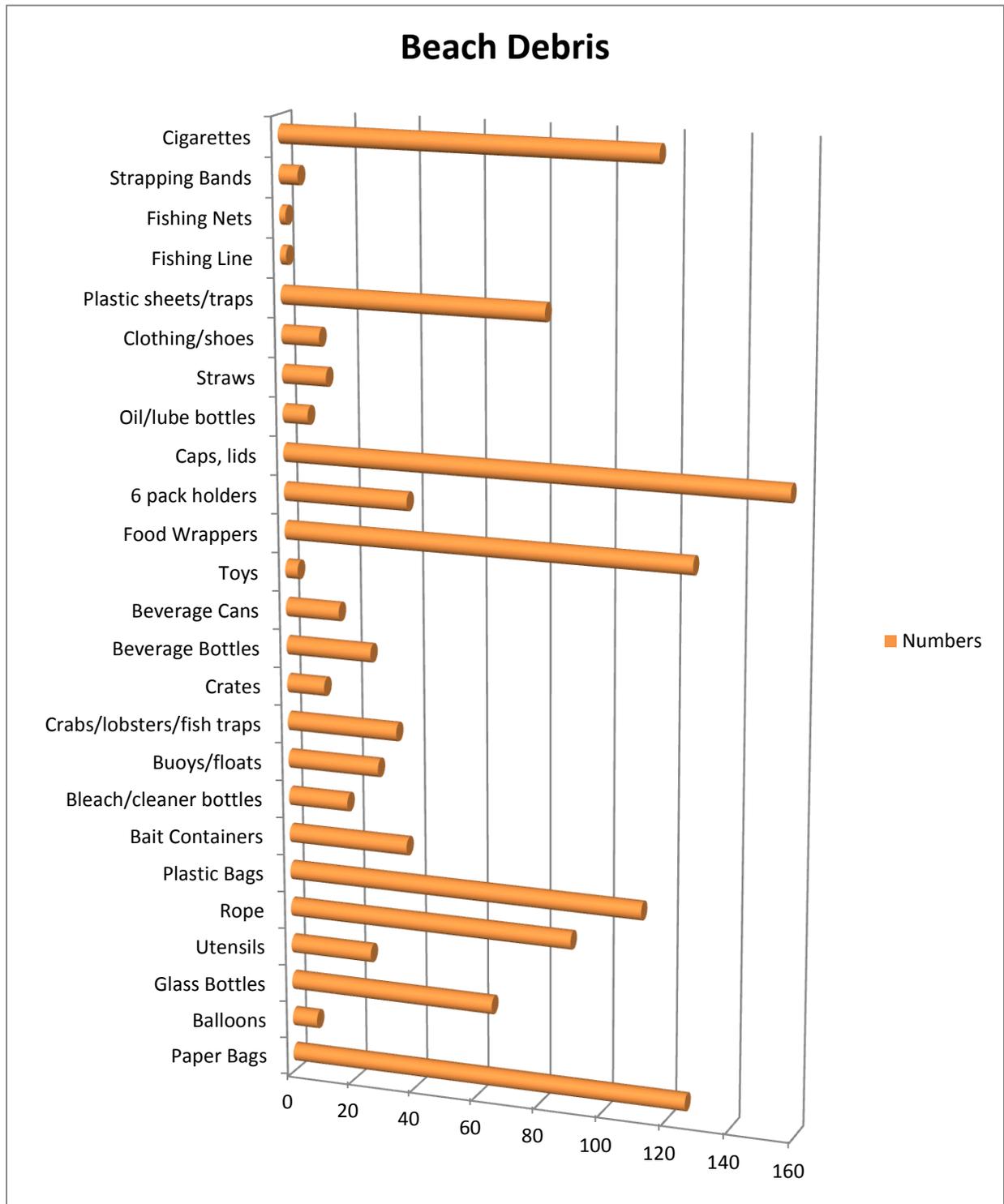
Get feedback from beach cleanup organizations.

Progress:

Due to time concern, we have changed our plan into writing an informative letter to the local government regarding beach debris problems. And we have decided to write the letter in second semester, since we are running out of time. We will be working on our portfolio reflection on our Google sites until the end of the first semester and preparing for our in-school presentation.

Data Analysis

Visual Representation



Data Conclusion

According to the graph, it is obvious that the dominant debris-types found on Golden Pebble Beach are bottle caps, food wrappers, cigarette butts, paper and plastic bags and plastic sheets/traps. All these wastes are closely connected with food and drinks, therefore the most tenable assumption is that large percentage of people come to beach, and left their food and drink wastes on the beach, instead of taking them when they leave. One notable observation is that there is barely any trashcan on the beach, and all the trash bins are placed in very faraway place, longer than 10-minute walking distance. In summary, we can conclude from the data that the lack of trash bins is the main cause of debris on the Golden Pebble Beach.

Recommendations

Planning Procedure

Procedure: how to organize a beach cleanup

The following guideline includes all the tasks you need to cover to set up a beach cleanup; it will act as your guide to ensure you do not leave any of the tasks out.

Step 1

Pick several possible dates from the calendar and then discuss with the DAIS, Huamei and DeSheng administrations to decide on the most suitable data. It is also imperative to get information from each school regarding how many people will participate)

Tips: Because Dalian is located in northern part of China, the weather usually gets chilly after October. We strongly recommend the activity to be taken place before November, so more people will be willing to participate.

DeSheng High School Contact Number: 13942067967 (This teacher does not speak English, and therefore you may need an interpreter)

Information regarding the following needs to be collected:

- 1) How many people will participate?
- 2) What is the appropriate time?
- 3) Is the transportation provided? Or which school will provide the transportation?
- 4) Check the weather beforehand.

Step 2

Write a detailed proposal with all the information collected. The proposal needs to be submitted to the DAIS administration as soon as possible.

Step 3

Talk to Secondary office and Deputy Manager regarding the necessary supplies and bus transportation (from school to the beach)

Supply Checklist

1. Gloves (preferably washable, so cleaner ayi can use it after the activity)
2. Plastic bags (1-2 per group)
3. Water dispenser
4. Clip boards (1 per group)
5. Pencils (1 per group)
6. Beach Cleanup Data Cards (print out)

Step 4

Email PSP and all DAIS teachers to see if they are willing to chaperon (1 chaperon per 10 people)

Step 5

Discuss with school store, café manager and middle school government regarding funds that are needed to pay for the snacks on the end-of-day celebration

Possible snacks

1. Hot chocolate
2. Hungary Scholar Café cookies and small bread (Café usually provide donations)

Step 6

Return all the non-used and reusable supplies to the secondary office and the cleaning department

Step 7

Start organize all the data that has been collected and prepare for presentations

Appendix

Beach Cleanup Data Card

DAIS BEACH CLEANUP DATA CARD



Thank you for participating in DAIS Second Annual Beach Cleanup. The commitment you have made today is the first step to ensuring we can enjoy a cleaner coastal environment in JinShiTan this year. The data you collect during the Cleanup is invaluable to DAIS Environmental Studies class' effort to initiate a sea change; helping us educate school and Dalian community about the scale and serious consequences of the global debris problem. Thank you. We could not do it without your help.

感谢您参加 DAIS 举办的年度海岸清洁活动。您今日支持将是确保海洋全年处于清洁状态的第一步。您在活动期间收集的资料十分宝贵，不仅可以帮助我们开展海岸清洁活动，更可以让大连的每个学校，社区了解海洋垃圾问题的严重程度以及后果。非常感谢您的参与。没有您的帮助，我们无法成功！

Guidelines:

1. Do not pick up broken glass or sharp objects.
不要捡破碎的玻璃或尖锐的物体
2. Do not touch any live animals
不要碰触活的动物
3. Stay out of the water
和海水保持一定距离
4. Use your glove to pick up items
捡东西时请戴手套
5. In case of an accident tell your team leader
一旦有意外发生请告诉领队

1. Cleanup Site Information

Zone or County Cleaned _____

Cleanup Site Name _____

Today's Date: Month _____ Day _____ Year _____
Coordinator _____

Name of _____

Number of People Working on this card _____
_____ km

Distance Cleaned _____ miles or

Number of Trash Bags Filled _____
Collected _____ kgs.

Total Estimated Weight _____

2. Contact Information (each individual team member)

1. Name _____ Email Address _____
Address _____

2. Name _____ Email _____

3. Name _____ Email Address _____
Address _____

4. Name _____ Email _____

3. Entangled Animals

List all entangled animals found during the Cleanup. Record the type of debris they were entangled in, for example: fishing line, fishing nets, balloon string/ ribbon, crab/ lobster/ fish traps, wire and other items (Please specify). In addition, please take photo of the entangled animal and send to michael.baldwin@daischina.org.

在清洁海岸时如发现有动物遭垃圾缠住，请如数列出，并注明于何种垃圾缠住，例如：鱼丝、渔网、气球绳/带、蟹/龙虾/捕鱼笼、金属线及其他物品（请注明）。如果有相机随身，还请拍照片记录下来，然后发到电子邮箱：michael.baldwin@daischina.org。

4. What was the most peculiar item you collected?

收集到最特别的东西是什么？

Example ___ Beverage Cans _____

Shoreline and Recreational Activities

Debris from fast food, beach-goers, sports/games, festivals, litter from streets/storm drains, etc.

___ Bags 袋子 (paper) _____	___ Bags 塑料袋 (plastics) _____
___ Balloons 气球 _____	___ Beverage bottles 塑料瓶 (plastics) _____
___ Glass beverage bottles 玻璃瓶 _____	___ Shotgun shells/wadding 猎枪弹 _____
___ Cups, plates, forks, knives, spoons _____	___ Food Wrappers/Containers 食品包装 _____
___ Pulls tabs _____	___ 6-packholders 六拼装朔料袋 _____
___ Beverage Cans 饮料罐 _____	___ Caps, lids 盖 _____
___ Toys 玩具 _____	___ Clothing, Shoes 服装 _____

Ocean/Water Way Activities

Debris from recreational/commercial I fishing and boat/vessel operations

___ Bait containers/packaging 容器 _____	___ Fishing nets 渔网 _____
___ Bleach/cleaner bottles 漂白剂瓶 _____	___ Light bulbs/tubes 灯泡 _____
___ Buoys/floats 浮标 _____	___ Oil/lube bottles 润滑油瓶 _____
___ Crabs/lobsters/fish traps 螃蟹 _____	___ Pallets 托盘 _____
___ Crates 包装箱 _____	___ Plastic sheeting/tarps 防水布 _____
___ Fishing line 鱼线 _____	___ Strapping bands 捆扎带 _____
___ Fishing lures/light sticks 荧光棒 _____	___ Straws, stirrers 吸管 _____
___ Rope 绳 _____	

Email: General Guidelines for Beach Cleanup

Dear DAIS Environmental Enthusiasts,

Good news and bad news. Beach cleanup is coming this Saturday, October 13. However, DeSheng High School students would no longer take part in this activity due to a sudden notification of inspection by the local administrations.

Anyway...

Here are the complete schedules and details you need to anticipate for the upcoming beach cleanup activity. Please read the following carefully, so you would know about the plans ahead of time.

12:30- Meet at school and take a bus to the beach

13:00- Begin cleanup activity

15:00- Return to DAIS for a celebration

15:30- End of activity

We strongly encourage you to wear warm clothing and comfortable shoes, such as sneakers or tennis shoes, since there will be broken glasses and other sharp objects on the beach.

The purpose of beach cleanup is to make a positive impact on our environment and contribute to community awareness about the importance of keeping our beaches clean. Make sure that you bring your own reusable water bottle and possibly a small snack while you are picking up the trash. Do not throw trash on the beach! Part of creating awareness is learning about the types of trash and where it comes from. We will also be collecting data. This data collection is essential to solving the long term problems of our coastal ecosystem, so keep good records of the trash you collect!

Thanks for your support,

Applied Environmental Studies Class

Email: Chaperons needed for the Beach Cleanup

Greetings Teachers,

The Environmental Class is hosting the second annual Beach Clean Up. We are currently in the search of teachers willing to chaperon this event. This event will take place from 12:30 to 4:00 on October, 13th. The students will probably meet in the gym and then take a school bus to the beach. At the beach, the Desheng Local High school will join us. We need about 1 chaperon per 10 students, and there will be at least 100-150 students including, DAIS Secondary and the HuaMei Academy.

Currently, only 4 teachers have responded to the email and are willing to supervise the event. We would like to have at least 10 chaperons due to the large number of students participating. Please please reply to this email if you are interested in chaperoning the event.

Thank You,
Sincerely,
The Applied Environmental Studies Class
Instructor
Dr. Baldwin

Email: Beach Cleanup- Chaperoning Details

Dear Teachers,

Thank you for agreeing to chaperone the Second Annual Beach Cleanup. We really appreciate your help and cooperation. Please be at the gym by 12:00 on this Saturday October 13th. We will be leaving shortly after a roll check. Unfortunately, we only have one bus available to transport the students to the beach. So there would be about 4 rounds of pick up. While the other students are still waiting in campus please keep the students who have been transported to the beach organized and make sure they don't wander or get close to the water. Thank you very much.

Sincerely,
Applied Environmental Studies
Instructor
Dr. Baldwin

Email Regarding Beach Cleanup Permission Slips

Dear Advisors,

Permission slips for beach cleanup had been distributed. Please collect them by Thursday and return them to Dr. Baldwin. We must have exact numbers in order to get buses for the event.

Two house points will be awarded to each person who takes part in this event, so don't forget to promote this event to your students.

Applied Environmental Studies Class

Instructor: Dr. Baldwin

Email: Invitation for Beach Cleanup Discussion to Secondary Principle

Dear Dr. Rosevear:

Last year the secondary principal's office supported the beach cleanup by providing transportation for DAIS students, plastic bags, gloves and some extra funds for food. We are hoping that you will be able to support us at the same level this year. We anticipate we will need 60 plastic bags, 150 gloves, and some funds for cookies and waters.

In addition, there will be a beach cleanup discussion at 10:50am on 19th October in Dr. Baldwin's classroom, please attend if you are available.

Thank you for your time and consideration, please contact us if you have any concerns.

Applied Environmental Studies Class

Email: Invitation for Beach Cleanup Discussion to School Store Instructor

Dear Ms. Ang

Last year the school store supported the beach cleanup by providing French fires and hot chocolate. We are hoping that you will be able to support us at the same level this year. We anticipate we will need waters and cookies that are enough for two hundred people.

In addition, there will be a beach cleanup discussion at 10:50am on 19th October in Dr. Baldwin's classroom, please attend if you are available. We are looking forward to working together with you.

Thank you for your time,
Applied Environmental Studies Class

Email: Invitation for Beach Cleanup Discussion to Deputy Manager

Dear Mrs. Wong,

The Applied Environmental Studies class would like to invite you to a class discussion at 10:50am on 19th September concerning DAIS second annual Beach Cleanup. The beach cleanup will be held on 13th October, and we currently are looking for donations of materials such as plastic bags, rubber gloves, and some refreshments for the celebration, as well as transportations. Transportations would be needed to drop and to pick up the students. Approximately 200 students will participate in this event, including DAIS secondary school, Huamei Academy and Desheng local school. Since many people will be attending, we are currently lacking funds to run this event, so we would really need and appreciate your help.

Thank you for your time and consideration.

Applied Environmental Studies Class
Instructor: Michael Baldwin

