



Sustainability Grants for Students Program Application

Name: Kelly Tung

Phone: [REDACTED]

Email: [REDACTED]

Organization Name: John F. Kennedy Middle School

Role at Organization (student, teacher, administrator, parent, etc.): student

On a separate piece of paper, please answer the following five questions:

- (1) Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.
- (2) Please provide a timeline of completion and key activities involved in the program/project.
- (3) What is the grant amount requested? Please provide a breakdown of the costs involved.
- (4) How many students will be involved in designing and implementing this program/project?
- (5) How many people will be impacted by this program/project?

Please note the following details of the Sustainability Grants for Students Program:

- The grant deadline is Thursday March 15, 2018 by 12 noon. Please email completed applications to sustainability@cupertino.org.
- Receipts for expenses must be submitted by June 30, 2018.
- If you are awarded a grant and accept this award, you agree to provide a final written report/evaluation which may include photos, videos, a site visit, etc.
- If you are awarded a grant and accept this award, you agree to allow the City of Cupertino to promote and acknowledge your involvement and your program/project on the City website, printed materials, social media, etc.

Sustainability Grants for Students Program Application

Answers to 5 Questions

By Kelly Tung

(1) Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.

My project is called JFK Green Commuters. The goal of my project is to raise awareness of alternative transportation (including carpooling, biking, walking and using public transportation) and inspire all John F. Kennedy Middle School students to take action.

I am currently a 7th grader at John F. Kennedy Middle School. I have observed that there is always traffic congestion around Kennedy Middle School when parents transport kids to school or from school. Traffic congestion increases gas emissions, causes pollution, increases health risks, and increases traffic accidents and pedestrian injuries.

I would like to encourage students to do their best to use alternative transportation. There are many different activities for students to do in order for them be considered as alternative transportation commuters. Here are some examples:

- Carpooling to school or from school.
- Walking to school or from school.
- Taking public transportation or ride-sharing services to school or from school.
- Students meet at designated meeting points, and then walk or bike to school.
- Students meet at school, and then together walk or bike to their destinations (houses, afterschool programs, libraries, etc.).

The missions of my project are to ease our school's traffic congestion and lessen air pollution, educate students how alternative transportation can help protect our environment, and inspire them to take alternative transportation. Indeed, taking

alternative transportation can be fun, social and healthy for kids. At the same time, we students can be eco-green commuters “safely and socially.”

(2) Please provide a timeline of completion and key activities involved in the program/project.

The timeline of completion is about 3 months (starting from the date that my project gets approved to June 15, 2018.)

JFK Green Commuters will include the activities below:

- A. **On-campus workshop to provide alternative transportation education to our students.** I am hoping that I could have an opportunity to invite a guest speaker from City of Cupertino’s Safe Routes 2 School Program to do a workshop during lunch break. It will help our students learn more about alternative transportation and resources that are available to them. It will be great if students are aware of Cupertino’s Safe Routes 2 School Program and utilize their resources and information.

In order to encourage students to attend the workshop, each attendee will be given a ***paper goody bag*** (may include a pencil, pencil sharpener, Earth Day assortment, etc.). The first 12 attendees will also be given ***spiral notebooks with pens***.

- B. **Set booths at school to promote Cupertino’s Safe Routes 2 School Program and raise awareness of alternative transportation.** The booth will be held during several lunch breaks. Whoever comes to our booth will receive a small gift. Our small gifts include ***pencils, pencil sharpeners, spiral notebooks, Earth Day assortments, and eco-green bags***. At the booth, we will provide students with Cupertino’s Safe Routes 2 School materials and explain to students about how alternative transportation can have an impact on our earth and the environment. I myself (Kelly Tung) and 4 other JFK Green Commuters project members (Sabrina Man, Ruomu Li, Betty Gao and Angela Zhang) will prepare for booths.

- C. **Create several 1-minute videos to promote this project, JFK Green Commuters, and raise awareness of alternative transportation.** I myself and 4 other JFK Green Commuters project members will make several videos. We plan to play the videos at the booths and hopefully this will get more attention to alternative transportation.
- D. **Walk or Bike One Week** (4/23/2018 to 4/27/2018). Walking and biking are two of the eco-friendly and healthy ways to exercise. We encourage students to walk or bike to school (or from school). During the week of 4/23/2018 to 4/27/2018, 12 lucky participants will get ***drawstring backpacks*** by drawing lots.
- E. **Carpool One Week** (05/21/2018 to 5/25/2018). Carpooling is a great way to reduce pollution and ease the school's traffic congestion. Moreover, it allows us to socialize with our friends. We encourage students to carpool to school or from school. During the week of 05/21/2018 to 05/25/2018, 12 lucky participants will get ***eco-green bags*** by drawing lots.

(3) What is the grant amount requested? Please provide a breakdown of the costs involved.

\$ 250 grant is requested. The estimated cost include:

- A. Spiral Notebooks with Pens: \$25
- B. Paper Goody Bags: \$15
- C. Pencils: \$35
- D. Pencil Sharpeners: \$15
- E. Earth Day Assortments : \$40
- F. Eco-green Bags: \$50
- G. Drawstring Backpacks: \$30
- H. Miscellaneous Items: \$40

(4) How many students will be involved in designing and implementing this program/project?

I will lead JFK Green Commuters project. In total, 5 students will implement this project. These five students include Kelly Tung, Sabrina Man, Ruomu Li, Betty Gao, and Angela Zhang.

JFK Green Commuters project:

Kelly Tung (Leader)	– Kennedy Middle School 7 th grader
Sabrina Man	– Kennedy Middle School 7 th grader
Ruomu Li	– Kennedy Middle School 7 th grader
Betty Gao	– Kennedy Middle School 7 th grader
Angela Zhang	– Kennedy Middle School 7 th grader

(5) How many people will be impacted by this program/project?

All John F. Kennedy Middle School students and their families, and school staff will be impacted by this project. Additionally, the community at large that lives and travels around Kennedy Middle School will be positively impacted by increased awareness for conscious commuting and less car trips to and from school. This project is to raise alternative transportation awareness, and inspire students to do their part and change the world.



Sustainability Grants for Students Program Application

Name: Saloni Mahajan and Melody Lou

Phone: [REDACTED]

Email: [REDACTED]

Organization Name: Lawson Middle School

Role at Organization (student, teacher, administrator, parent, etc.): Student

On a separate piece of paper, please answer the following five questions:

- (1) Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.
- (2) Please provide a timeline of completion and key activities involved in the program/project.
- (3) What is the grant amount requested? Please provide a breakdown of the costs involved.
- (4) How many students will be involved in designing and implementing this program/project?
- (5) How many people will be impacted by this program/project?

Please note the following details of the Sustainability Grants for Students Program:

- The grant deadline is Thursday March 15, 2018 by 12 noon. Please email completed applications to sustainability@cupertino.org.
- Receipts for expenses must be submitted by June 30, 2018.
- If you are awarded a grant and accept this award, you agree to provide a final written report/evaluation which may include photos, videos, a site visit, etc.
- If you are awarded a grant and accept this award, you agree to allow the City of Cupertino to promote and acknowledge your involvement and your program/project on the City website, printed materials, social media, etc.

1. Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.

- A. Our project is removing the water fountains that Lawson Middle School currently has and installing new ones. We are getting the ball rolling by starting off with just one water fountain, the most used water fountain in the school. Our hope is that after that first water fountain is replaced, the Lawson PTA will continue the process of replacing the other fountains to the point where eventually, they are all replaced.
- B. The problem that we currently face is that no one wants to drink out of the water fountains. They taste are unfiltered and old, and generally not ideal for drinking water. Out of a poll of 94 students, the average rating of the water fountains was 3.8/10. This raises the problem that more students buy water bottles than drink the water out of the fountains. This is both a waste of water, since the water in the fountains is sitting doing nothing, and a waste of plastic, since so many water bottles are being bought when that would be unnecessary if people were willing to drink water out of the fountains.
- C. Plastic is made up of many toxic compounds that are known to cause not only air pollution, but ground and water pollution as well. When plastic is dumped in landfills, it seeps into the groundwater and lowers its quality. If it's incinerated, the toxic chemicals can be released into the air and cause air pollution. It is already considered overused and has its effect on our environment, so a little less plastic waste could be a big help.

2. Provide a timeline of completion and key activities involved in the program/project.

August 2017: Established communication with principal
October 1, 2017: Tested water for contaminants
December 14, 2017: Met with PTA, got approval to start process
January 28, 2018: Figured out details for type of fountain
February 28, 2018: Got Chipotle Fundraiser approved
March 5, 2018: Chipotle Fundraiser
April-May 2018: Collect more data about Fountains, finalize costs
July-August 2018: Buying/ Installing Water Fountains

3. What is the grant amount requested? Please provide a breakdown of the costs involved.

The amount we are requesting is \$250. The full cost of one fountain is \$1,713, including warranties and shipping costs. Installation has not been included in this cost, as this is being paid for by the CUSD school district, but we are affiliated with the Lawson PTA. The money that we would receive if we were to get this grant would go towards warranty costs and shipping, as well as whatever costs would need to be covered. The breakdown of costs is as listed below:

Water Fountain	\$1,314	
Pack of 3 Replacement Filters		\$173
4-year Warranty	\$108	
Shipping/Taxes	\$118	

4. How many students will be involved in designing and implementing this program/project?

2 students are involved in the design and implementation of this project, Saloni Mahajan and Melody Lou.

5. How many people will be impacted by this program/project?

The people that will be impacted by this project are everyone that are a part of the Lawson Middle School community, which is approximately 1,500 people including students and staff.



CUPERTINO GREEN

Sustainability Grants for Students Program Application

Name:

Kara Gennis

Phone:

[REDACTED]

Email:

[REDACTED]

Organization Name:

DeVargas Elementary School

Role at Organization (student, teacher, administrator, parent, etc.):

teacher

On a separate piece of paper, please answer the following five questions:

- (1) Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.
- (2) Please provide a timeline of completion and key activities involved in the program/project.
- (3) What is the grant amount requested? Please provide a breakdown of the costs involved.
- (4) How many students will be involved in designing and implementing this program/project?
- (5) How many people will be impacted by this program/project?

Please note the following details of the Sustainability Grants for Students Program:

- The grant deadline is Thursday March 15, 2018 by 12 noon. Please email completed applications to sustainability@cupertino.org.
- Receipts for expenses must be submitted by June 30, 2018.
- If you are awarded a grant and accept this award, you agree to provide a final written report/evaluation which may include photos, videos, a site visit, etc.
- If you are awarded a grant and accept this award, you agree to allow the City of Cupertino to promote and acknowledge your involvement and your program/project on the City website, printed materials, social media, etc.

Hello,

I am a kindergarten teacher at DeVargas Elementary School, a Title I school. My teacher team works hard to provide hands-on, project-based learning for our students to create a more authentic, real-world experience for them and to show them that they really can impact the world. Each Spring, we spend 4-6 weeks learning about gardening. This ties strongly to the California Common Core Standards and Next Generation Science Standards for Kindergarten. Due to minimal funding for this, we rely on donations for seeds and seedlings to put in our garden, or we have to buy whatever is cheapest. Therefore, we have little control over what we plant.

Our goal is to be able to purchase seeds and seedlings for flowers that are native to California. Such plants increase the health of a garden as they attract pollinators and can ward off some pests. Including native flowers will allow us to spend time in the learning unit focused on sustainability and conservation. As you know, native plants require less water and chemicals to thrive, and they help reduce greenhouse gases. While a simple gardening unit is fun for the students, it would be much more powerful for them to learn how they can help make our air cleaner and help conserve resources.

- Number of students involved: There are approximately 96 kindergarteners who will participate each year. We believe the garden project will affect the school and community as we plan to invite families and neighbors to tour and learn about our garden at the end of the unit.
- Costs: The total amount we are asking for is \$190.
 - Seed packets cost between \$3.00-\$7.00, depending on the variety. Because we believe in student voice and choice, it is hard to predict which varieties they will vote on based on their research about benefits of each plant. We would like to be able to provide at least 4 packets of seeds to each class of 24 students. If all students chose the more expensive seeds, this would add up to \$112 before tax. We are also hoping for another \$60-75 to purchase child-sized garden gloves to protect their hands while planting and tending the garden. Such

gloves are available on Amazon for \$12-15 per 5 pair of children's garden gloves.

- Timeline: The garden unit begins at the beginning of April and will run through May. We will be planting right as we begin the unit and will tend and observe the garden daily while learning more and more about plant life and, hopefully, the power of native plants.

Thank you for your consideration in donating to this learning experience. We are excited to include you in the process!

Sincerely,

Kara Gennis
Kindergarten Teacher

[REDACTED]
DeVargas Elementary School
5050 Moorpark Avenue, San Jose, CA 95129
[REDACTED]



Sustainability Grants for Students Program Application

Name: Sarah Kim

Phone: [REDACTED]

Email: [REDACTED]

Organization Name: Eaton Elementary

Role at Organization (student, teacher, administrator, parent, etc.): Special Programs Coordinator

On a separate piece of paper, please answer the following five questions:

- (1) Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.
- (2) Please provide a timeline of completion and key activities involved in the program/project.
- (3) What is the grant amount requested? Please provide a breakdown of the costs involved.
- (4) How many students will be involved in designing and implementing this program/project?
- (5) How many people will be impacted by this program/project?

Please note the following details of the Sustainability Grants for Students Program:

- The grant deadline is Thursday March 15, 2018 by 12 noon. Please email completed applications to sustainability@cupertino.org.
- Receipts for expenses must be submitted by June 30, 2018.
- If you are awarded a grant and accept this award, you agree to provide a final written report/evaluation which may include photos, videos, a site visit, etc.
- If you are awarded a grant and accept this award, you agree to allow the City of Cupertino to promote and acknowledge your involvement and your program/project on the City website, printed materials, social media, etc.



Eaton Elementary School

20220 Suisun Drive, Cupertino, CA 95014

(408) 255-2848 • www.cusdk8.org/eaton

Louis Barocio, Principal



March 6, 2018

(1) Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.

1. Our school is located in a nice residential neighborhood and open to the community before and after school hours. Currently we are partnering with the City of Cupertino to replace the existing public trash receptacles with the updated duo-trash receptacles to ensure making our community more environmentally friendly. We are also working to enforce recycling with new receptacles at Eaton with the Brute recycling bins. The recycling bins will be located where students, teachers, parents and the community have easy access which will help them to recycle their waste rather than the usual trash bins. Recycling is an effective way to reduce greenhouse gas emissions. Paper recycling prevents methane emissions from landfills and requires considerably less energy to produce. Recycling also reduces the need to extract new resources from the earth and results in significant energy savings.

(2) Please provide a timeline of completion and key activities involved in the program/project.

2. As soon as our grant is accepted, we will purchase the Brute recycle receptacles and place them around our school campus.

(3) What is the grant amount requested? Please provide a breakdown of the costs involved.

3. Grant amount requested:

Brute 32 Gal. Blue Vented Recycling Waste Container: 7 x \$35 = \$245

(4) How many students will be involved in designing and implementing this program/project?

4. 20 of our Student Council Representatives will be implementing this program and reinforcing the importance of recycling to their peers.

(5) How many people will be impacted by this program/project?

5. We have over 500 students and 50 staff members at Eaton. The surrounding community will also be impacted by this program as the school is open to the public after school hours and during the weekends.

I hope in working together we can bring the recycling system to Eaton and raise environmental awareness among our students, parents, teachers, and surrounding community. Thank you for the time and consideration.

Sincerely,

Louis Barocio, Principal

Name: Leon Zha

Phone: [REDACTED]

Email: [REDACTED]

Organization Name: Cupertino High School

Role at Organization (student, teacher, administrator, parent, etc.): Student

(1) Please provide a description of your program/project and explain how this will reduce Greenhouse gas emissions in the City of Cupertino.

I plan to place recycling bins next to trash cans around the entrance of Wilson Park. This park is not only popular with the residents of Cupertino for recreation, but also close to shopping establishments such as Portal Plaza, Main Street Cupertino, and the Marketplace. Due to its location and popularity, this park sees an enormous amount of recyclable waste pass through it every day. In fact, one of the reasons I was inspired to choose these locations was because this park is surrounded by popular milk tea shops such as Cafe LaTTea, T4, Tpumps, Happy Lemon, and Super Cue Cafe. I am tired of seeing people walk through Wilson Park throw their empty boba cups and water bottles into trash cans because there is no alternative. The presence of recycle bins would encourage recycling among citizens by offering them a choice. In addition, recycling plastics would reduce greenhouse gases because it takes more energy to create new plastics than to recycle them, meaning less natural gas would need to be burned to fuel these processes. Furthermore, technology today is able to recover the energy stored in plastics, converting it into electricity, synthetic gas, and fuels. Finally, recycle bins would mean less waste being transported to landfills, where plastics can take hundreds of years to break down.

(2) Please provide a timeline of completion and key activities involved in the program/project.

After receiving a approval for the grant, I will immediately order the bins. The bins should take at most, 2 weeks to arrive. I will place the bins at the park entrances the weekend of the bins' arrival. The city employees who normally empty trash cans will also empty the recycle bins. While it is true that these employees will have more bins to empty, the total waste amount should be the same, just divided up into recyclables and non-recyclables.

(3) What is the grant amount requested? Please provide a breakdown of the costs involved.

211 dollars are requested. The bins chosen are linked below, each bin costs 102 dollars. Less expensive bins are smaller, less stable, and less appropriate for a park setting. Recycle stickers, also linked below, are 7 dollars. I can provide the first garbage bags.

Bin:

https://www.amazon.com/Safco-Products-9474BL-Canmeleon-Receptacle/dp/B00094CKSW/ref=sr_1_22?ie=UTF8&qid=1521088050&sr=8-22&keywords=outdoor%2Bgarbage%2Bbin&th=1

Sticker:

https://www.amazon.com/Recycle-sticker-organize-containers-Countour/dp/B014LSYE1M/ref=sr_1_4?ie=UTF8&qid=1521088276&sr=8-4&keywords=recycle+stickers

(4) How many students will be involved in designing and implementing this program/project?

One student will be involved. I will be able to take care of ordering and placing the bins in the park by myself. However, I will require the help of the city employees who normally empty the trash bins. They will bear the extra responsibility of carrying more, but smaller, bags of trash, as well as the responsibility of replacing the garbage bags within the recycle bins.

(5) How many people will be impacted by this program/project?

These bins are meant to last a long time, so everyone who passes through Wilson Park for the next few years will be impacted. From picnic attendees, dog walkers, and even everyday joggers will all be affected because they all use recyclables in some way, such as drinking from plastic water bottles. Furthermore, Wilson Park is a popular site for recreational sports, and many people carrying recyclable waste show up for baseball games, ultimate frisbee, etc.



Sustainability Grants for Students Program Application

Name: Ryan Chi

Phone: [REDACTED] Email: [REDACTED]

Organization Name: Rolling Hills 4-H Club of Cupertino Environmental Committee

Role at Organization (student, teacher, administrator, parent, etc.): Member

On a separate piece of paper, please answer the following five questions:

- (1) Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.
- (2) Please provide a timeline of completion and key activities involved in the program/project.
- (3) What is the grant amount requested? Please provide a breakdown of the costs involved.
- (4) How many students will be involved in designing and implementing this program/project?
- (5) How many people will be impacted by this program/project?

Please note the following details of the Sustainability Grants for Students Program:

- The grant deadline is Thursday March 15, 2018 by 12 noon. Please email completed applications to sustainability@cupertino.org.
- Receipts for expenses must be submitted by June 30, 2018.
- If you are awarded a grant and accept this award, you agree to provide a final written report/evaluation which may include photos, videos, a site visit, etc.
- If you are awarded a grant and accept this award, you agree to allow the City of Cupertino to promote and acknowledge your involvement and your program/project on the City website, printed materials, social media, etc.

Sustainability Grant for Students Proposal
by the Rolling Hills 4-H Environmental Committee

1. Please provide a description of your program/project and explain how this will reduce greenhouse gas emissions in the City of Cupertino.

- We are the Environmental Science Committee of Rolling Hills 4-H Club, seven students who are passionate about protecting the environment and have a deep interest in ecology and sustainability.
- We are aware of Cupertino's Climate Action Plan, a strategy to put Cupertino on the path to achieve a 15% reduction in carbon emissions by the year 2020, 49% reduction by 2035 and 83% by 2050. We hope to help Cupertino achieve these goals.
- We plan to increase awareness of native plants among Cupertino citizens. Since native plants require less water than non-native species, planting native species saves on water and energy, thus reducing greenhouse gas emissions.
- On average, a native plant requires approximately 0.09 gallons of water per day; on the other hand, a square foot of a lawn requires about 0.62 gallons, around six times more.
- In addition, planting native plants has benefits beyond just cutting down on greenhouse gases. Native plants provide the perfect habitat for native bees, birds, butterflies, and other local fauna. These improve the ecosystem and make Cupertino a greener place to live in.

2. Please provide a timeline of completion and key activities involved in the program/project.

- We plan to educate Cupertino residents about about the benefits of planting native plants at Cupertino's Cherry Blossom Festival.
- To prepare for the events, we will plant seedlings and create education boards.
- At each event, we plan to:
 - distribute seedlings to event-goers
 - pass out a small info sheet about native plants with each seedling
 - display native plants
 - present educational displays, including the following topics:
 - why native plants are beneficial
 - composting
 - how to create your own butterfly and bee pollinator garden
 - tips for collecting rainwater
 - drip irrigation systems run by "smart" sprinkler controls
 - planting in a climate friendly environment by choosing plants that adapt to the dry California climate
 - attracting pollinators with native plants

- types of California native plants

3. What is the grant amount requested? Please provide a breakdown of the costs involved.

- We request \$227.44, towards the following items:
 - \$48.61: Seed packets
 - Lupins: \$11.95 for ¼ lb. seeds
 - Poppies: \$12.95 for ¼ lb. seeds
 - Native Strawberries: \$6.50 for 2,400 seeds
 - Native Pacific Northwest Wildflower Mix: \$17.21 for ¼ lb. seeds
 - \$20.00: Potting soil (2 bags, 4 cubic feet)
 - \$28.50: Seedling starters (20, 72-cell trays)
 - \$50.00: Trifold boards (6-pack)
 - \$06.00: Paper (1 ream)
 - \$50.00: Native Seedlings
 - \$07.00: Sand (2 bags)
 - \$17.33: Sales Tax
 - _____

- \$227.44: Total

4. How many students will be involved in designing and implementing this program/project?

- We are a group of seven students who comprise the Rolling Hills 4-H Environmental Committee. In addition, we hope to encourage other youth members in our club to help out with our outreach events.

5. How many people will be impacted by this program/project?

- At last year's Cherry Blossom Festival, we had approximately 300-400 visitors at our petting zoo.
- We hope to reach even more of the estimated 20,000 visitors this year with our additional exhibit.
- We hope that the entire city of Cupertino learns about our project and helps to work on their own gardens in response to our enthusiasm around the topic of native, drought-resistant plants.