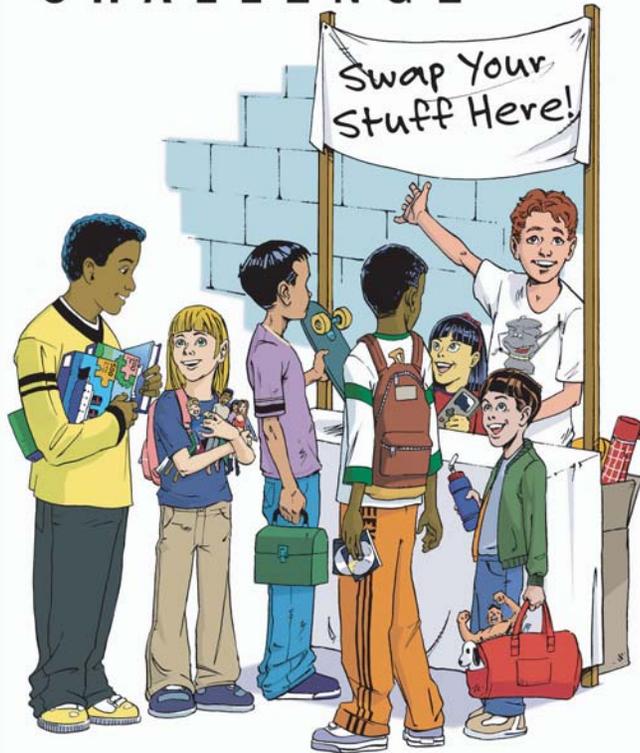


TrashMasters!™
REDUCE & REUSE
CHALLENGE



High School Division
Brooklyn Borough Winner

Brooklyn Technical
High School

NEW YORK CITY DEPARTMENT OF SANITATION

2010 GOLDEN APPLE AWARDS

This certificate is awarded with the sincere appreciation and esteem of a grateful Department and City in recognition of your school's efforts to help make New York City shine.



City of New York, Michael R. Bloomberg, Mayor
Department of Sanitation, John J. Doherty, Commissioner
Bureau of Waste Prevention, Reuse and Recycling, Robert Lange, Director


John J. Doherty, Commissioner
June, 2010



Brooklyn Technical High School

The Green Leaf Club

Presents

The Green Effect

To Reduce and Reuse



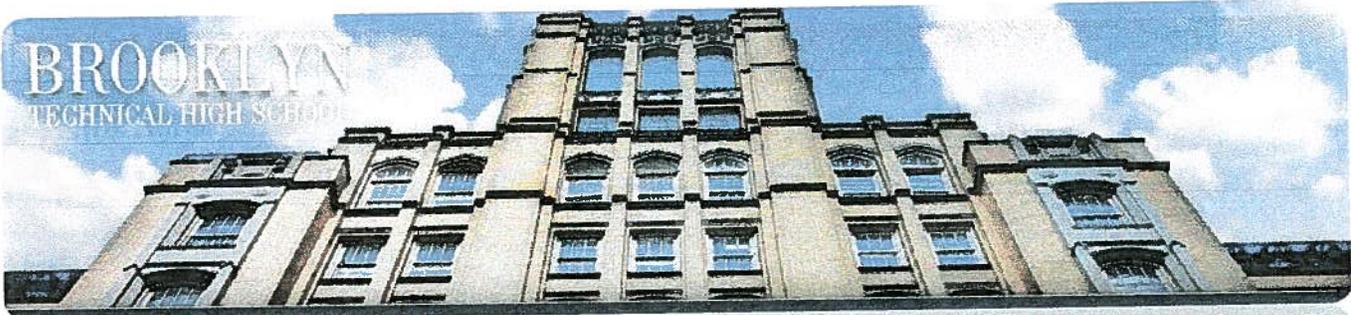


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Mission Statement

The Green Effect is a project launched by a group of students and their teachers to promote the idea of environmental conservation among the students and staff of Brooklyn Tech. We believe that it is necessary to protect nature not only for the benefit of ourselves but for the sake of future generations.

Our group will also work with outside environmental organizations to set up various projects such as fund-raising and collection of items for reducing and reusing waste.

We hope that by planting the seeds, the Green Effect will be a catalyst for future environmental initiatives.



Teachers:

Nichole Byrne- Lau: English Teacher/ Contest Coordinator

Marc Williams- English Teacher/ Coordinator of Student Activities



Action Plan

The objectives of the Green Effect, launched by the students and staff of Brooklyn Tech, are summarized in this Plan of Action.

A group of dedicated students will devote their time and efforts to begin a wide range of projects to promote the message that “We are all responsible for our environment.”

Students, teachers and staff members will all actively participate in these efforts. We believe that it is important to bring together the efforts of everyone in the school. We can only make a lasting change if everyone is genuinely concerned to combating this epidemic of indifference towards the environment.

One of the ways we hope to reduce waste is through collection drives. We will host several collection drives throughout the school year and collect a variety of items, from cell phones, ink cartridges and toners to batteries, CDs, #5 plastics and bottle caps.

We hope that through collection drives, students will become aware of the amount of trash that they produce through wasteful habits and how they could prevent such damage to the environment.

We also believe that direct contact with our peers will effectively deliver our message. Therefore, we will educate our fellow students through writing articles, creating artwork, working with the student government, and participating in educational events outside of the school.

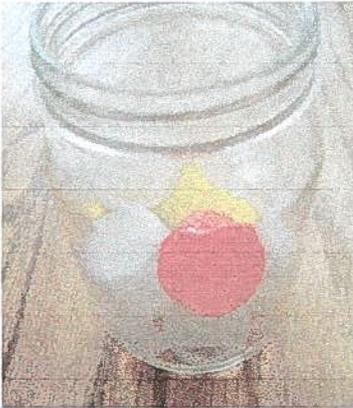
Finally, our school had the honor of hosting the Environmental Solutions Eco-Warrior Competition, or the “Avatar Awards,” presented by James Cameron himself, and actress Sigourney Weaver. The presenters discussed environmental issues and the art of public speaking. Students competed in the speech competition about how to apply the environmental lessons learned from Avatar to America and the rest of the world.

In this binder, we will discuss these projects in detail. We will also include photos, artwork and graphs that document our progress. We will also attach certain representative examples of student work. We hope to clearly exhibit our passion towards our goals!



Collection Drive

Volunteers devoted their lunch periods to setting up collection areas in the cafeteria to collect CDs, CD cases, DVDs, VHS/cassettes, Batteries, Cell phones, Ink cartridges, Hand-held



electronics, Sneakers, broken Umbrellas and more. Many of these items were collected and brought to 3R Living, a store that is located right near our school and sells eco-friendly products. The store will reuse these items for various projects. The broken umbrellas, for instance, will be used to make earrings, clothing and other accessories.



Ink cartridges and laser toners were donated to the school through the National Honor Society and Parent-Teacher Association to raise money.

This year, we began collecting #5 plastics, such as medicine and yogurt containers, which were recycled through the Preserve Gimme 5 program. Plastic bottle caps from soda & water bottles, shampoo containers, detergent, etc. were also collected and recycled through the Recycle Caps with Aveda initiative. We hope to continue

expanding the variety of items we collect, and help students to think twice before tossing something in the bin.



Recycled CDs and Ink Cartridges From Students



Learning Standards for Collection Drives

Career Development and Occupational Studies

Standard 2: Integrated Learning

Students will demonstrate how academic knowledge and skills are applied in the workplace and other settings.

Health, Physical Education, and Family and Consumer Sciences

Standard 3: Resource Management

Students will understand and be able to manage their personal and community resources.

Mathematics, Science, and Technology

Standard 7: Interdisciplinary Problem Solving

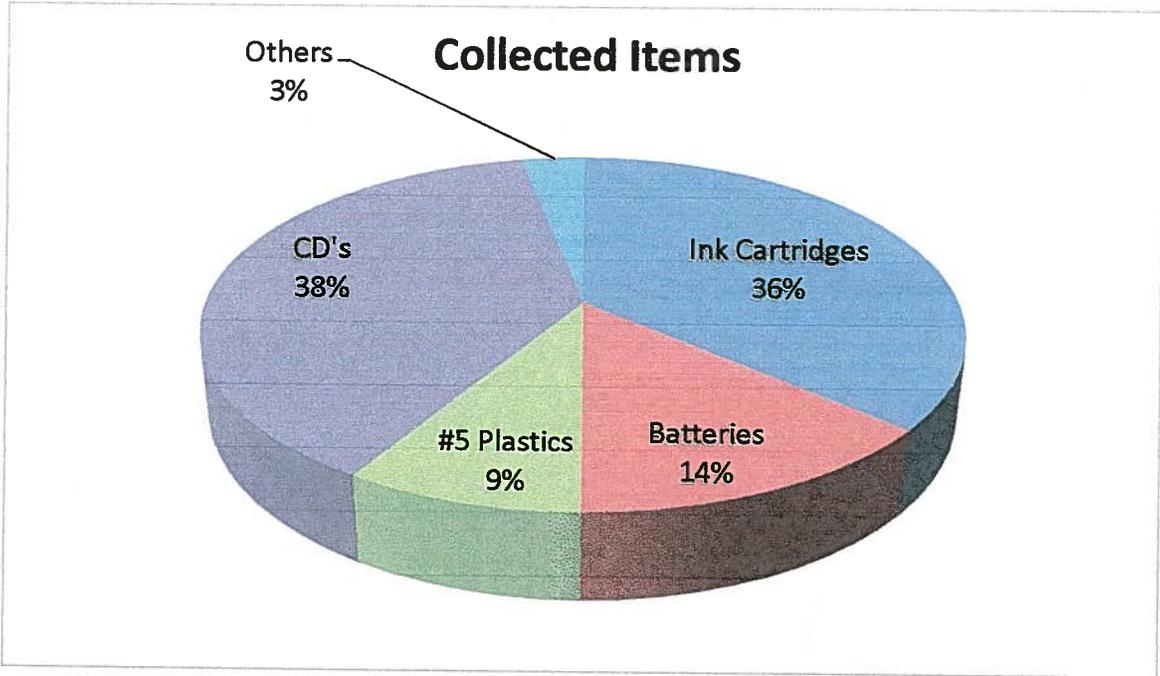
Students will apply the knowledge and thinking skills of mathematics, science, and technology to address real-life problems and make informed decisions.



Mr. Thomas Evangelist, a science teacher, coordinated the PTA-student ink cartridge recycling program.



Student Donating Batteries to Recycle



Items Reused or Recycled

Item Type	Total Number Collected
Ink Cartridges	68
Batteries	26
#5 Plastics	16
CDs	72
Others	6

Flyer



Put a stop to this.

Bring your batteries, cell phones, old CDs and cases, DVDs, hand-held electronics, ink cartridges, laser toners, umbrellas to the center section of the cafeteria.

Green Leaf Club Collection Drive

DATE: November 24th- 28th

All Lunch Periods **January 12th-16th**

Dec 1- Dec 5

11/29/08
[Signature]

* Subject to change – Check emails for confirmation of location for Nov 28th meeting.

Printed

Questions ? Email Nickc32@gmail.com
AIM: Azmirick

Red Paper

Notes:

- I. Attendance
- II. Collection of Remaining Applications
- III. Point System
- IV. 2007 Book and Toy Drive
- V. ~~November 1st Youth Group Orientation~~
- VI. Reminders – The next scheduled meeting will be on November 28th in room 2C3*. We will NOT meet on November 21st because it is the day before Thanksgiving Recess. Check your emails constantly for updates from us. If you have a Facebook, then be part of the "Brooklyn Tech Red Cross" Group.

AGENDA November 14th, 2007 – Wednesday

The following is your Executive Board of the Red Cross Club:

Advisor: Ms. Tanzman
 President: Nicky Chen (Nick)
 Vice President of Membership: Audrey Noniashvili
 Vice President of Chairpersons: Israt Rahman (Izzy)
 Treasurer: Rebecca Zielkowski
 Secretary: Xiao Liu
 Club/Team Council Representative: Heba Shanin

November 14th, 2007

Red Cross Club

29 Fort Greene Place · Brooklyn, New York · 11217 · Telephone: (718) 804-6400 Fax: (718) 260-9245 www.btkrs.edu

Randy J. Asher, Principal

Brooklyn Technical High School



REUSING WASTE

=

REDUCING WASTE

With a student body of over 4000 students, Brooklyn Tech accumulates waste rapidly. Every morning, plastic breakfast containers overflow both garbage and recycling bins alike. Every class period leads to the overuse of paper supplies and every lunch period leads to an abundant amount of garbage. To remediate the



Bottles Collected Afterschool During Club Activities.

situation, the Green Leaf Club continues our campaign from last year to reduce wastes in our school. To minimize the amount of waste, we set up collection bins in copy rooms, libraries, and offices, where a large amount of paper, ink cartridges, and hard disks are used every day. We also sent letters encouraging teachers to print on both sides and reuse old handouts for their lesson plans and worksheets. During lunch periods, we walked around the cafeteria collecting empty plastic cans and bottles from students. During afterschool club meetings, members also collect glass and plastic bottles strewn all over the school, and sort between the glass, aluminum, and plastic to recycle.

This year, the Green Leaf Club decided that a better way to reduce waste is to reuse waste. We collected the many cardboard boxes in

administrative offices and decorated them to use as recycling bins. Now each office has a bigger receptacle for its paper wastes.

Learning Standards:

Career Development and Occupational Studies

Standard 2: Integrated Learning

Students will demonstrate how academic knowledge and skills are applied in the workplace and other settings.

Health, Physical Education, and Family and Consumer Sciences

Standard 3: Resource Management

Students will understand and be able to manage their personal and community resources.

Mathematics, Science, and Technology

Standard 7: Interdisciplinary Problem Solving

Students will apply the knowledge and thinking skills of mathematics, science, and technology to address real-life problems and make informed decisions.



Decorated Paper Recycling Bins Made From Old Cardboard Boxes

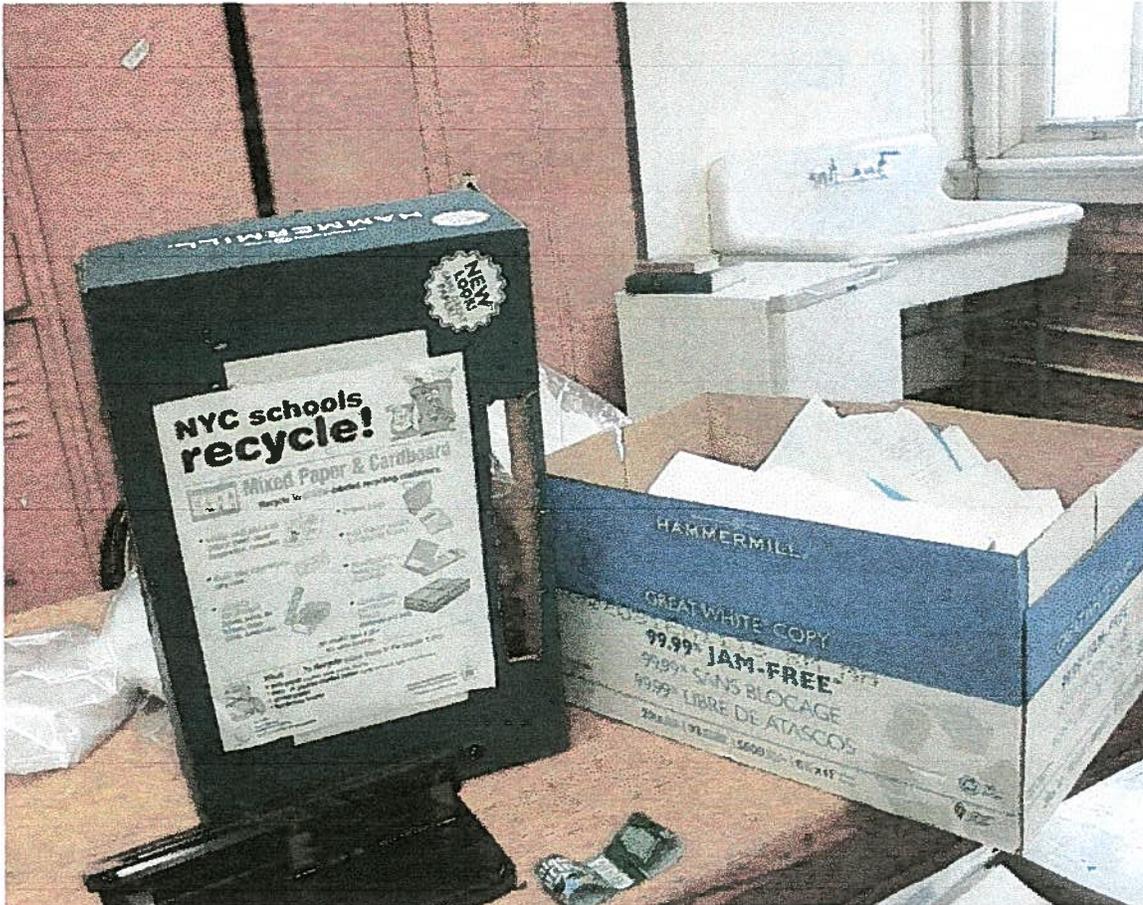


Students Engage in Recycling Activities to make Brooklyn Tech a Greener School.





Recycling Bins in the English Department





nielle Shatab reusing cardboard boxes to make recycling bins.



Environmental Solutions Eco-Warrior Competition

“

Our mission is to find, inspire, and cultivate the next generation of Eco-Warriors through

”

educational, award winning competitions.

" The night is quiet, I hear no sound; But for this beating, that I'm so greatly bound; I breath the air, as crisp as first mornings light; I love the living, though none are in sight.; This Planet, so pure, so true; I know nothing but the hearts expression, *I See You*; I am in this blissful twilight, forever entwined; Because I am proud to say, I will never again, be blind; Life is so precious, a never ending euphoria; So I say to you, come and visit Pandora. But when you visit Pandora, realize that you're in Brooklyn Tech; because this is the location of a very special event; James Cameron and Sigourney Weaver are coming to our school; And if you all could be there, that'd be so cool; The Avatar Awards will celebrate the environment, public speaking....."

-Mr. Marc Williams, COSA

"Hope is not a strategy; luck is not a factor....I think that's a pretty good motto for how we got to try to turn this world around..." -James Cameron



The Avatar Awards, designed to train students into "eco-warriors," was held in the Brooklyn Tech auditorium on April 17th, 2010. Over 200 students attended this special event, where presenters James Cameron and Sigourney Weaver discussed the importance of education in finding solutions to environmental problems. From this event, we learned that if humans work collectively, even the smallest actions to reduce waste will be an immense benefit to the environment. We should always dream big, but not be discouraged if our efforts begin in small steps.

Sample Speeches:

Briana Popp Brooklyn Tech – Grade 11

An Environmental Lesson I Learned From AVATAR and How To Apply It In My Community, New York City, America and The World

Sprawling landscapes filled with luscious plants, teeming with creatures of all sizes and colors. The world of Pandora transported us to a planet full of wonder, yet this seemingly foreign landscape parallels a more familiar home. *Avatar* challenged our perception of the environment, reminding us that we can no longer continue to take our world for granted, for every decision we make influences the future of our entire planet.

While the floating mountains and glowing flora of Pandora may seem a wondrous fantasy, we must acknowledge that such inexplicable beauty is present here on Earth, from the canopies of the rainforest to the deepest depths of the ocean. Millions of unique life forms exist throughout the world, and thousands more are waiting to be discovered. Each of these organisms plays a vital role within their ecosystems, and not only deserves our admiration, but also our protection.

Together we must voice our concerns to leaders worldwide, demanding projected considerations of the effects of oil drilling, deforestation, and greenhouse gas emission. Nonetheless, as Jake illustrated in *Avatar*, changes made by the individual are equally as important in achieving such an immense goal. Simply by understanding the importance of preserving our environment and taking small steps, from recycling to conserving energy, we can protect the precious world around us and inspire others to do the same. Even the smallest organisms play a crucial role in our planet, and it is our turn to act.

Ashley Popp

Brooklyn Technical High School

Class of 2011

In the movie *Avatar* we are transported to a world of immense beauty, where all is blooming with life and wonder. However, behind the vibrant colors and mesmerizing special effects lies something even more astounding—that our earth was once like that. Our world was once filled with lush landscapes and majestic wildlife, yet now much of that has been uprooted. Our increasing population and lack of responsibility towards our earth has led to massive deforestation and extinction of innumerable plant and animal species.

Although our situation may seem bleak, there is hope. There is still untouched wilderness in places such as Alaska where plants and animals thrive, uninterrupted by humanity. In *Avatar* we saw that preserving Pandora's natural environment outweighed extracting a valuable fuel source, "unobtanium." Thus we must ensure that Alaska will also be preserved, that it will remain untainted from oil drilling. For oil drilling is only a temporary solution for our need of fuel sources. We must instead turn toward renewable resources, an answer that will restore our balance with nature, and lead to the remediation of our earth. For as the Na'vi believe, "all energy is borrowed" and it is about time we start returning it.



Promoting Through Artwork

Posters, flyers and other artwork are vital in the process of promoting environmental messages and spreading awareness of environmental problems. As a result, our volunteers diligently worked and produced articles, posters, flyers, photographs and poetry. These different pieces of art were displayed in various places around the school to share and educate the faculty and students on how to be an eco-friendly school.

The Arts

Standard 1: Creating, Performing, and Participating in the Arts. Students will actively engage in the processes that constitute creation and performance in the arts (dance, music, theatre, and visual arts) and participate in various roles in the arts.

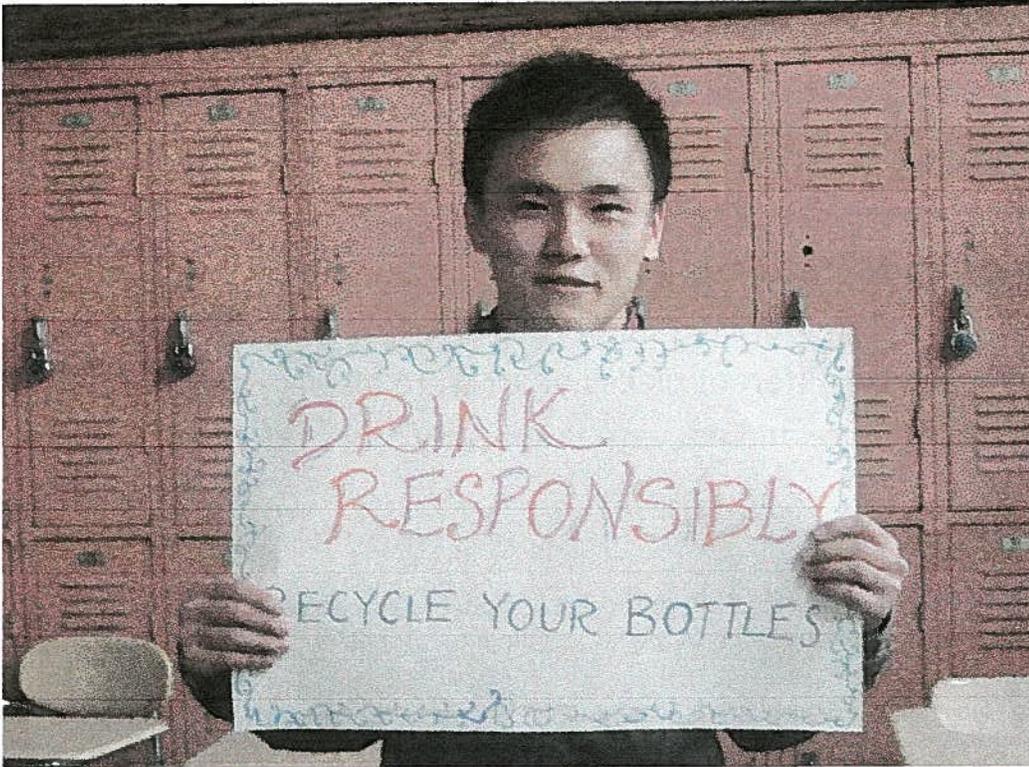
Standard 2: Knowing and Using Arts Materials and Resources. Students will be knowledgeable about and make use of the materials and resources available for participation in the arts in various roles.

Standard 3: Responding to and Analyzing Works of Art. Students will respond critically to a variety of works in the arts, connecting the individual work to other works and to other aspects of human endeavor and thought.

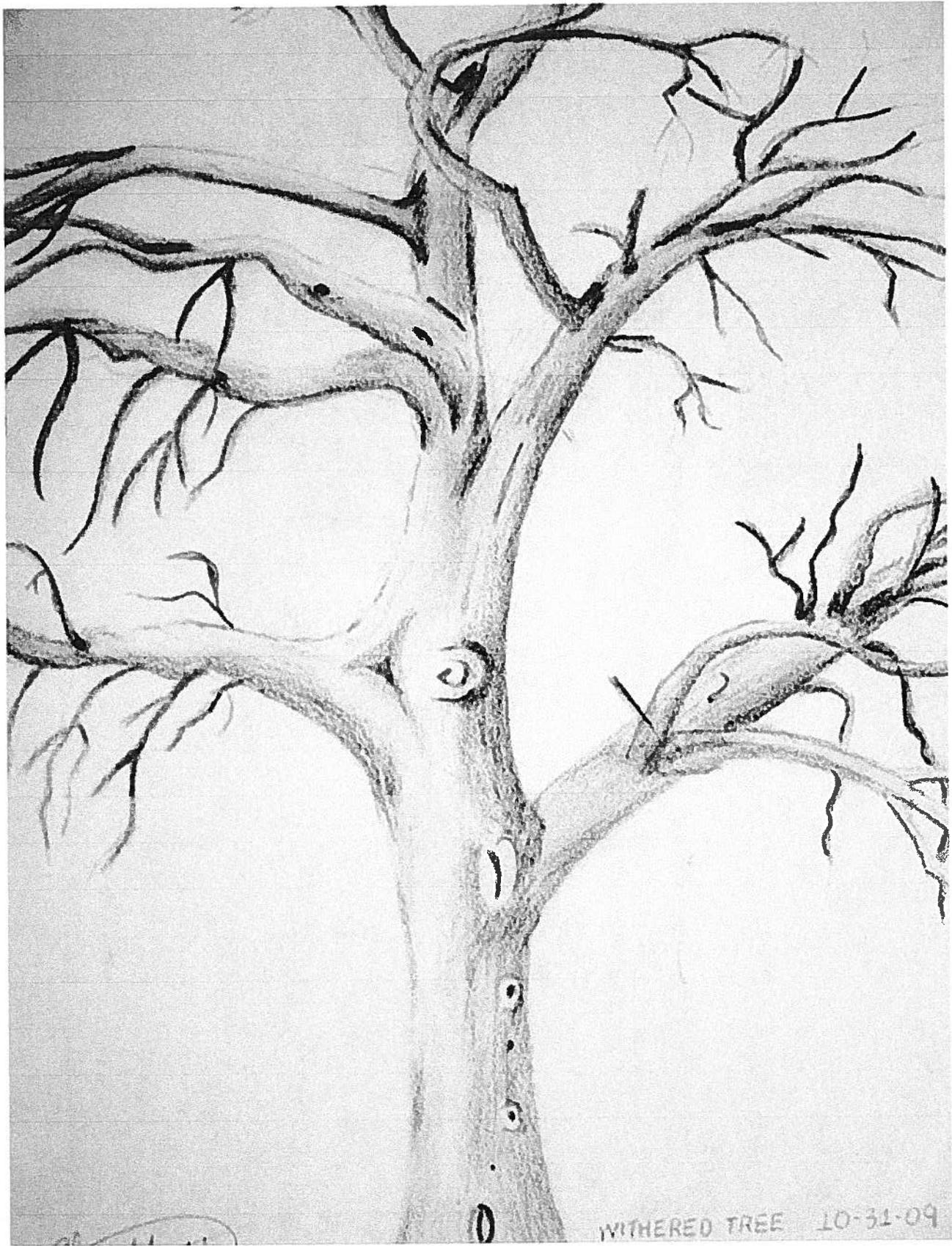
Mathematics, Science, and Technology

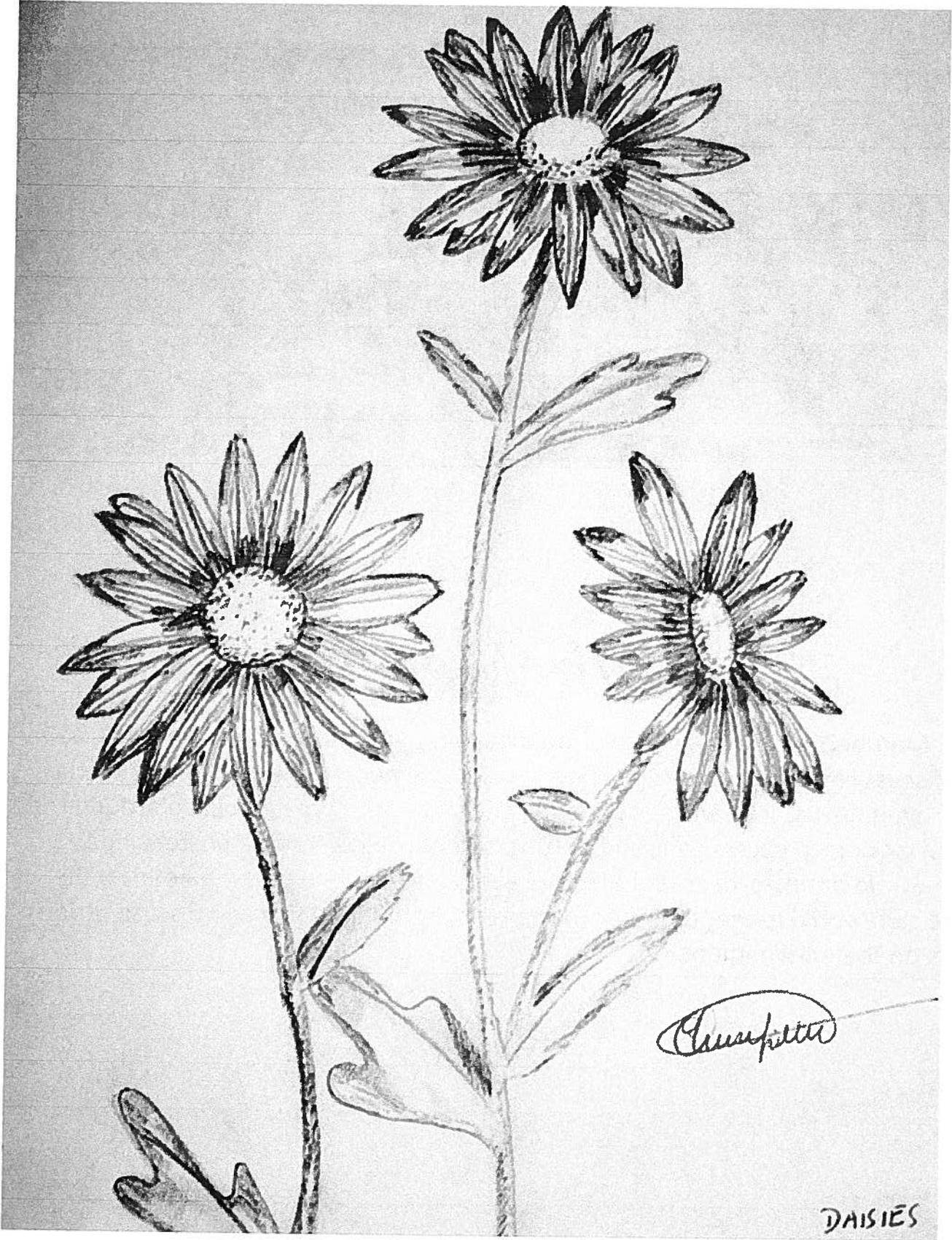
Standard 2: Information Systems. Students will access, generate, process, and transfer information using appropriate technologies.











DAISIES



Club Meetings

Members of the Green Leaf Club met every week after school to organize and discuss recycling projects that we could implement in the school. During the meeting, different jobs were assigned to the students. Some would go around the school picking up excess cans and bottles, some would decorate posters, and some would brainstorm ideas for future events. At the end of the meetings, the entire club would gather together to share environmental tips and discuss various topics on the environment.

Learning Standards

English Language Arts

Standard 1: Language for Information and Understanding. Students will listen, speak, read, and write for information and understanding. As listeners and readers, students will collect data, facts, and ideas; discover relationships, concepts, and generalizations; and use knowledge generated from oral, written, and electronically produced texts. As speakers and writers, they will use oral and written language that follows the accepted conventions of the English language to acquire, interpret, apply, and transmit information.

Standard 4: Language for Social Interaction. Students will listen, speak, read, and write for social interaction. Students will use oral and written language that follows the accepted conventions of the English language for effective social communication with a wide variety of people. As readers and listeners, they will use the social communications of others to enrich their understanding of people and their views.



Career Development and Occupational Studies

Standard 2: Integrated Learning

Students will demonstrate how academic knowledge and skills are applied in the workplace and other settings.

Standard 3a: Universal Foundation Skills. Students will demonstrate mastery of the foundation skills

Standard 4: Science

Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.



Final Notes

In a large and competitive school like Brooklyn Tech, environmental obligations and conservational ideals are not among the most important priorities of the students. Still, with the combined efforts of its students and staff members, participants of the Green Effect project have created a significant ripple. Our projects have gained the attention of the students and created a significant difference. Through ongoing projects and collection drives, we will overturn this tide of indifference. We will continue planting the seeds of environmentalism.