

TrashMasters!™  
**SUPER**Recyclers



Elementary School Division  
Manhattan Borough Winner


**Anna Silver School PS 20**

NEW YORK CITY DEPARTMENT OF SANITATION  
**2004 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 J. Bloomberg, Mayor  
Department of Sanitation, John J. Doherty, Commissioner

  
John J. Doherty, Commissioner  
June, 2004

TrashMasters!  
Team Up to Clean Up



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June, 2004



# P.S. 20

The School of Technology and the Arts



Dr. Golubchick – Principal

Mr. S. Weiner – Asst. Principal



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# IDENTIFICATION SHEET

Contest Name: Golden Apple Awards:  
Super Recyclers

School Number: P.S. 20

School Name: The Anna Silver School

District: 01 Borough: Manhattan

Grade Division: Elementary

School Address: PS 20

166 Essex Street  
NYC, NY, 10002

Phone: (212) 254-9577

Fax: (212) 598-0382

Principal: Dr. Golubchick

Contest Coordinator: Lisa Radford

E-Mail: ps20lisa@yahoo.com

Names of Participating students, classes, and staff:

Classes: All classes participated including 961 students

Teachers & Staff Members: All teachers staff members participated.

In addition, many of our student's families participated.



# Trash Masters Super Recyclers Project Summary

P.S. 20 would like to apply for a 2004 Golden Apple Award (Trash Masters, Super Recyclers) for our outstanding recycling program.

PS 20 is a diverse educational community whose instruction is driven by high standards and is centered on the Principles of Learning. Our mission is to create a nurturing, inclusive environment in which there is a belief that all of our students can succeed and become productive, responsible citizens in the world community. Part of being a responsible member of both local and global communities includes working together with others to protect and conserve the Earth's natural resources. We would like to empower our students and their families by encouraging them to take action and help protect and conserve the Earth's natural resources.

P.S. 20 is located on the Lower East Side. It serves 961 students of widely different backgrounds. 100% of the student population are poor and are Title I eligible qualifying for the free breakfast/lunch program. More than half of our student population are new immigrants and are unfamiliar with NYC's methods and motivation for reducing, reusing and recycling (RRR). Due to our large immigrant population, there is a need to establish an outreach program that helps students and their families learn about waste management in NYC which includes reducing, reusing and recycling at school, in their homes and in their communities. Parents will participate in preserving the ecology through waste management and will gain a greater appreciation of the ecology and in the beauty of their neighborhood. P.S. 20's would like to educate its' students and their families about the benefits of waste reduction and encourage them to make waste reduction a part of their every day lives. This is critical to ensure the quality of life in the future.

Another issue that supports the need to ensure that our students and their families are educated about the protection and conservation of the Earth's natural resources is the fact that the majority of students in this NYC public school are apartment/tenement dwellers. Although home owners are held accountable to be civically responsible and recycle or face fines, there are no consequences or measures of accountability in place to ensure that residents of apartments/tenements recycle. Therefore, it is up to each family to understand the effects and consequences of the families decision to make a conscious effort to make a difference and RRR.

In addition, a large portion of our student population are effected by asthma. Research demonstrates that some illnesses including asthma have been linked to pollution. It is vital for the well being of these students that each and every one of us take action by reducing waste and stop polluting the Earth.

Parents will be invited to attend workshops held at P.S. 20 to provide them with information about NYC recycling program, the importance of being environmentally conscious and ways to protect and conserve the Earth's natural resources. Parents will be provided with a wide array of resources including literature, web sites and suggestions for activities that they can engage in with their families at home to reduce waste, conserve energy as well as activities to reuse materials to create arts and craft projects.



At P.S. 20, we will engage in a school wide effort to educate our students and their families about the importance of protecting and conserving the Earth's natural resources, reducing, reusing and recycling. Students will work individually, collaboratively in teams with other students and with their families collect and share information, and ideas.

Parents will work with a storyteller from Henry Street Settlement to engage in activities centered around the theme of ecology, conservation and waste management.

Select classes and parents will be able to visit the Botanical Gardens as well as local Lower East Side Community Gardens to support and extend the learning that has taken place both in school and at home.

Environmental checklists will be developed with the Parent Teacher Association in order to provide parents, children and staff with guidelines on how to conserve and create a sound recycling environment. Students will engage in real life problem solving activities in order to identify and develop solutions involving waste management efforts in their school, class, cafeteria and at home. Such efforts would improve our ecological environment by having students in school work with staff and at home with their families to devise a plan to make our living and work places more environmentally friendly.

Families will develop a recycling plan with their children. The children will maintain double entry journals keeping track of what they recycle and what else they have to do to improve the ecology. Students will be engaged in essays and classroom presentations in which parents will be invited to.

In science classes, children will learn about ecology and the relationship of living things to each other. Students will develop an appreciation of biodiversity and ecological systems.

Students and their families will participate in a poster campaign to help educate others both in school and in the Lower East Side community about the importance of being environmentally conscious and ways in which individuals can make a difference.

Families will be encouraged to participate in the P.S. 20 Waste Management Ecological Challenge. With support from the classroom teacher, families will determine about how much waste they produce weekly and devise a family plan to reduce the amount of waste they produce. Students and their families will work together to create a presentation of the effectiveness of their plan which will be presented in class. Parents will be invited to the class presentations and may participate in the presentation with their child. Families will be encouraged to use graphs, and visual aids in their presentations. One family will be chosen from each class based upon the greatest amount of waste reduced and that family will be invited to and honored at P.S. 20's culminating event, an Earth Day Celebration.

The educational value of this project is vast. Students and their families will

- Examine personal environmental choices and their effects on the quality of life in the community
- Examine and investigate environmental concerns in the school and local community
- Obtain and use relevant information by reading, researching, observing, and presenting their findings to an audience
- Identify and investigate environmental problems at school and/or at home, research it, and use problem solving strategies to design a model solution
- Develop or refine a reduce, reuse, recycle system in school or at home in an effort to reduce their volume of trash
- Examine the process people use for making and changing rules within the school, family and local community
- Explore ways in which individuals and groups bring about civil improvements
- Participate in a collaborative project in order to make local and global communities a better place to live, work and learn
- Examine different methods of waste disposal and types of jobs and services in each method
- Learn about the economic concept of scarcity as they determine how and why natural resources are consumed, and how they can be conserved
- Use the skills of comparison and analysis
- Develop student's vocabularies and integrate the efforts in science, math, social studies and Language Arts as a result of research conducted
- Examine environmental cause and effect relationships
- Educate the P.S. 20 community as to ecological and waste management concerns and efforts
- Engage in hands on experiences at the Botanical Gardens and at local Lower East Side Community Gardens.
- Be involved in storytelling and Book Making workshops and classes
- Examine how population effects the amount of trash, natural resource depletion, demand for goods and services
- Work together to protect and conserve natural resources
- Inform others about the importance of RRR, as well as conserving and protecting the Earth's natural resources
- Become aware of how people can harm and protect the environment
- Take action and make a lifelong commitment to protect the Earth



**What do you think NYC  
does with it's Garbage?**

**The following responses were  
given by students before we  
began our thematic study on RRR.**

NAME Alfredo Lopez

4-326

### What Do You Think NYC Does With It's Garbage?

I think the NYC Department of Sanitation dumps the garbage onto a garbage barge and the boat dumps it into the Hudson River.  
I can prove this!

NAME Jia Li Shi

4-326

### What Do You Think NYC Does With It's Garbage?

When the garbage men pick it up and dumps the garbage in the truck. I think it goes into a big store which recycles the things. The things that don't get recycled gets dumped away in another part of the world. It gets dump in another country. (I think)



NAME Mikaela Verden 4-320

### What Do You Think NYC Does With It's Garbage?

they take it all the way onto the  
other side of New York city <sup>then</sup> they Recycle  
it. They bring it to factories and make  
sculptures out of it.

NAME G. Wilson 4-3210

### What Do You Think NYC Does With It's Garbage?

Some of the garbage can be used  
like soda, paper, chips, water, food.  
Other food like fruit are taken  
to the farm. <sup>of New York</sup> Side and will be buried  
in the ground.

**Students used the  
Problem Solving Method  
to determine how much trash  
their family generates in one  
day.**

### **TRASH MATH**

Every person in America creates a lot of garbage everyday. Each person generates about four pounds of trash daily. This trash has to be dealt with in some way. If one person generates 4 pounds of trash each day, then how many pounds of trash will your family generate in one day?



NAME Steven Lam

## TRASH MATH

### Question:

How many pounds of garbage does your family make  
each day?

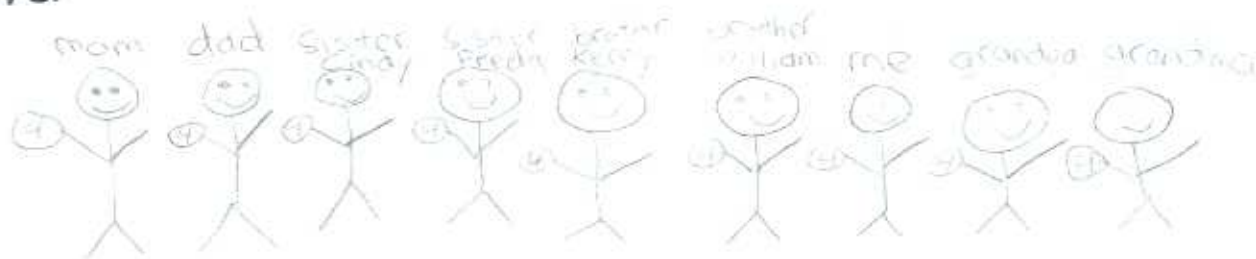
### Information:

One person generates 4 lbs each day

### strategy:

Draw a picture

### solve:



### Answer (In complete sentences):

My family generates 36 lbs of garbage each day because there  
are 9 people in my family and each person make 4 lbs.  
of garbage each day. Therefore, 9 people times 4 lbs.  
= 36 lbs. of garbage.

**The students engaged in a  
cooperative, hands-on,  
sorting activity.**











# Separating Trash

# SEPARATING TRASH

## Paper

newspaper  
construction paper  
paper plates  
paper cups  
index paper  
printing paper  
drawing paper  
posters

## Plastic

milk carton  
soda bottle  
water bottle  
buttons  
dolls  
bottle of glue  
index box  
pencil case

## Metal

scissors  
pipe  
metal pans  
metal pots  
paperclips  
keys  
door knobs

## Glass

Snapple  
window  
strawberry jar  
glass cups  
glass bowls  
glass plates  
eye glasses  
sunglasses  
bulbs  
flower pots

Name Jenna Ko



**Responses to the  
NYC Department of Sanitation  
educational video.**

Caroline

PS.20

3/25/04

3-224

### RRR video

I learned that you should recycle because it is fun to recycle. Recycling is a good thing to do cause you can help the environment and the city. The 3 R's stand for Reuse, recycle and redo. You could recycle bottles, cans, paper, glass and metal. You cannot recycle food because it will go rotten and bad. You should put the glass in the blue bin and the paper in the green bin. Plus you have to Recycle, Recycle, Recycle to help the city and the environment.

P.S. Collecting garbage is fun, fun, fun!!!

green



Recycle, Recycle and Recycle!!!

Caroline

Blue



Recycle!

Recycle



# Angel Cotray

## The RRR Movie

I learend that you don't have to use the garbage all the time. You can recicle insted. I learend that you can recicle soap bottles. I learend you can only recicle plactik, paper, uloominum and paper bag. The last thing I learend was never to recicle food.



Kiara  
P. 20

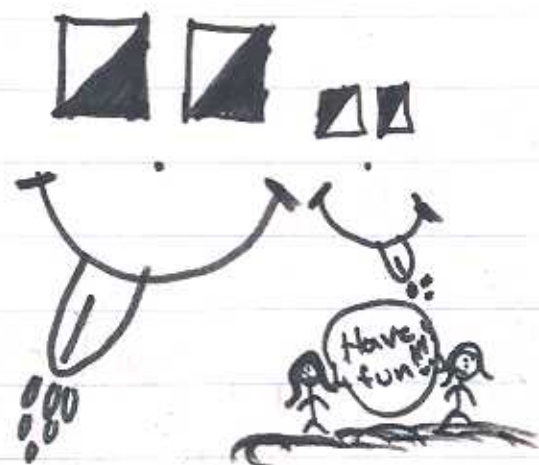
March 25, 2004  
3-224

## RRR <sup>o</sup>Widie movie

I Learend that  
the cans allways go in the blue garbage. The newspapers, notebooks,  
plastic paper go in the green garbage. You throw food in regular  
garbages. Somethings don't go in the garbage, you bring it to a  
recycling factory. When you put it in the recycling factory they  
make everything nice, new and clean for. Once you put everything in  
the right place then the garbage truck men bring it to the  
big huge huge, huge, huge, dump until it gets really, really, really filled  
up.

Love,

Kiara M. DIA.





Naomi Arias

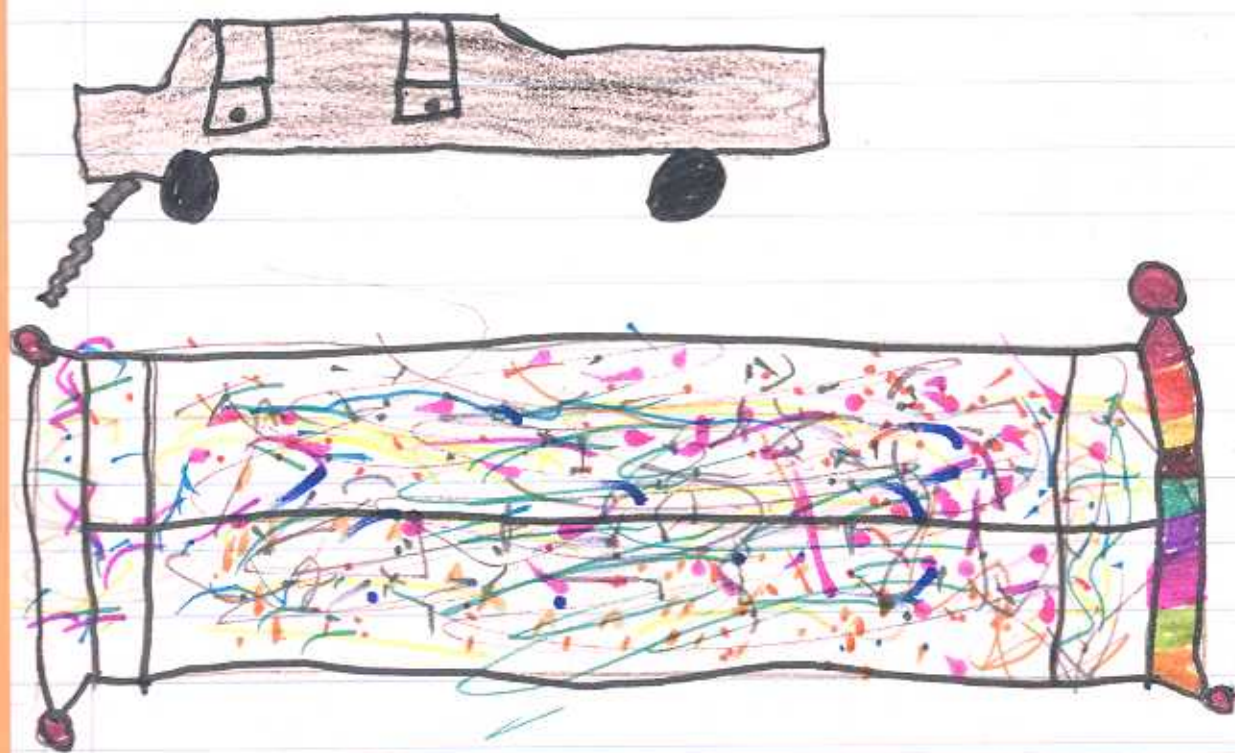
P.520

March 25, 2009

3-22-4

## RRR Video

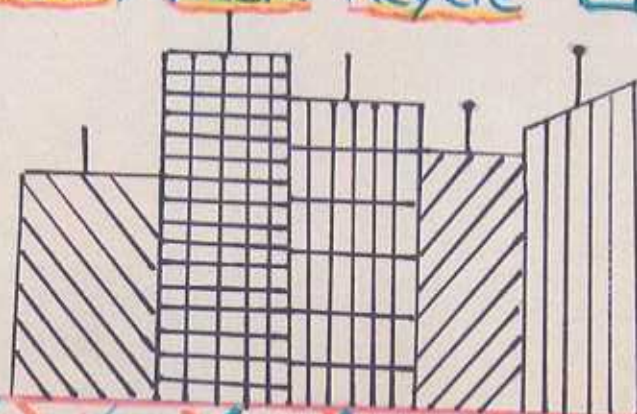
I learned that when you throw out garbage you need to put them in place. There is a blue garbage and a green garbage. So when you throw paper you need to put them in the green garbage. When you throw can's and bottles you need to put them in the blue garbage. I learned that you can't just throw any kind of garbage because then if you throw out any kind of garbage like food it will <sup>be</sup> stinky.



**Reduce, Reuse, then Recycle**  
**Posters were created by**  
**the students and hung**  
**around the school.**



Reduce, Reuse, then Recycle 回收



NY



Ming Jie Chen



# RRR

**REDUCE** (use less), **REUSE** (use again),

**THEN**

**RECYCLE** (make into something new)

If you bring your lunch to school, use a lunch box instead of paper or plastic bags. This way you can keep reusing it.

Lunch Room



If you want to be

COOL,  
RRR!



# RRR REDUCE , REUSE , THEN RECYCLE

Reduce the amount of trash that you make by reusing things. Donate your old books to the library or give them to someone who can use them!



# RRR REDUCE, REUSE THEN RECYCLE

Reuse plastic and paper bags. This will help  
to make less trash and keep our environment  
clean!

With Recycling:

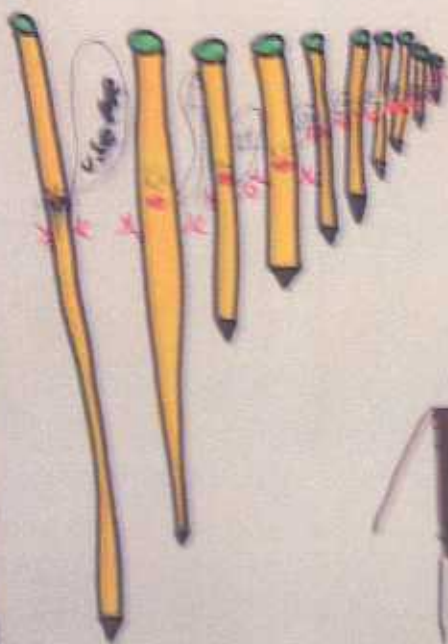


Without Recycling:



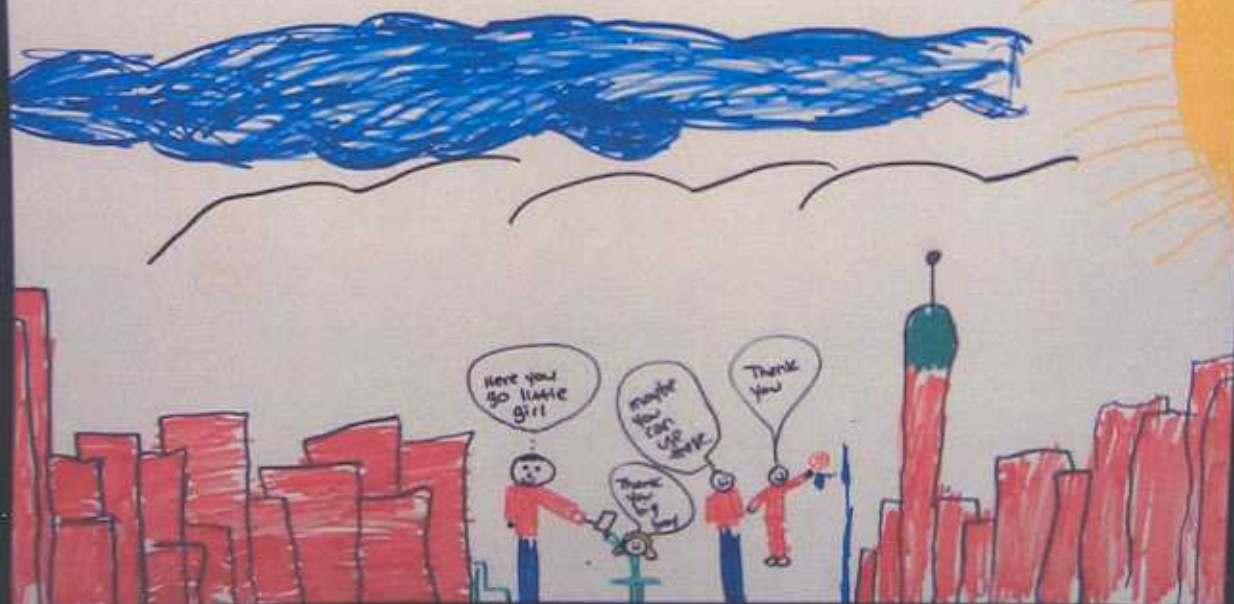


# RRR REDUCE REUSE THEN RECYCLE



# **RRR** **REDUCE, REUSE, THEN** **RECYCLE**

When you outgrow your books and toys, give them to someone else who could use it! Don't throw them away. Reduce, Reuse then Recycle!



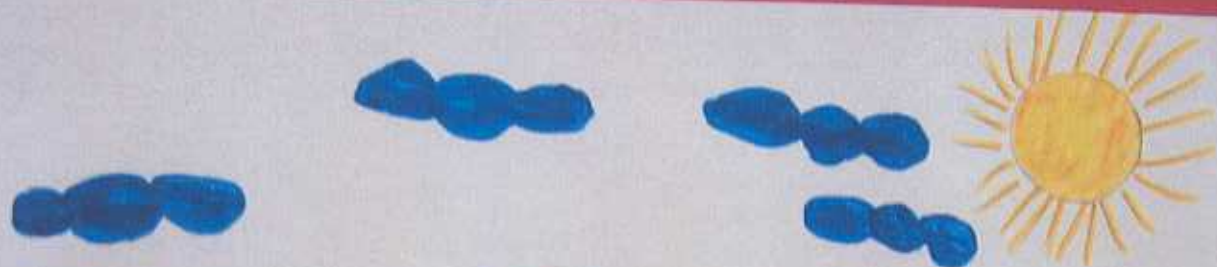


**Environmental Posters  
were created by  
the students and hung  
around the school.**

HELP SAVE OUR ENVIRONMENT BY RECYCLING







HELP SAVE OUR ENVIRONMENT BY  
RECYCLING





# RECYCLE

Don't forget your  
recycling bin!  
Don't litter and  
keep your city  
clean!



Paper and Cardboard

Plastic, Glass and Metal

Recycle by throwing paper and cardboard in the green bin and glass, metal and plastic in the blue bin.



By: [Signature]



**Conserve Paper Posters  
were created by the  
students and hung  
around the school.**

Don't Waste Paper!

Use both sides of the sheet.





Don't waste paper!

Use both sides of the sheet

Don't waste paper!

Use both of the sheet.

不要浪费纸!

用纸的两面。不要乱

丢纸。

Don't

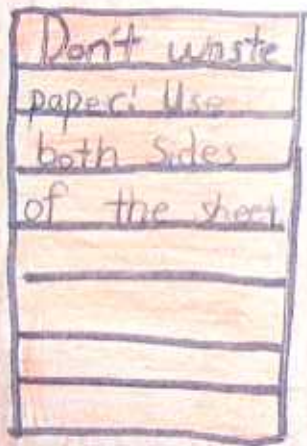
waste paper!

Use both of

the sheet.



Don't waste paper! Use  
both sides of the sheet







**How & Why  
To Protect The Environment  
&  
Conserve Natural Resources**



## To Protect the Environment &amp; Conserve Natural Resources

## REASONS TO

## WAYS TO

keep the air clean

- \* for we don't get polluted
- \* for it doesn't kill animals

save trees

- \* because trees give us things
  - \* because trees give us air
- recycle

- \* we should recycle because it saves earth
  - \* we recycle for we don't use too much things.
- conserve water

- \* because we should clean water for animals
- \* we should make animals more safer.

conserve energy

- \* we should save light
- \* we should save water

protect wildlife

- \* because we have to save ourselves.
- \* to be careful about life.

clean up litter

- \* clean up in the water
- \* clean air

keep the air clean

- \* not using cars that much
- \* not letting bad air come from different things.

save trees

- \* by not cutting or taking too much trees.
  - \* by not using it for too much things.
- recycle

\* using things over

\* save things.

conserve water

- \* clean the water
- \* don't throw things

conserve energy

- \* save light because it takes energy away.
  - \* we should save water to not kill animals.
- protect wildlife

- \* not destroying things in life
- \* saving our earth

clean up litter

- \* not throwing garbage in water
- \* not letting pollution go.

Ms. Olivieri's kindergarten class collected used shampoo and created a shampoo bottle band. They experimented with the relationship between the number of beans that they put in their bottle and the sound that it produced. They also had the opportunity to create and imitate sound patterns.







