

TrashMasters!™
REDUCE & REUSE
CHALLENGE



Elementary School Division
Queens Borough
Honorable Mention

**Alexander Graham Bell
PS 205**


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

PS 205 Queens

Meets the Reduce & Reuse Challenge



PS 205 Queens
Elementary Level

TrashMasters!

Reduce and Reuse

Challenge

PS 205 Queens The Alexander Graham Bell School

District 26 Queens
Elementary Grade Division
75-25 Bell Boulevard
Bayside, NY 11363
718-464-5773
Fax 718-464-5875
scifun@aol.com

Susan Sherer, Principal

Frances Bosi, contest coordinator

Participating Classes & Staff:

| | | |
|------------------------|------------------------|------------------------|
| K-231 and Mrs. Saffer | K-233 and Mrs. Eisen | 1-218 and Miss Guiggio |
| 1-219 and Mrs. Larssan | 2-221 and Miss Chen | 2-223 and Miss Chin |
| 3-236 and Miss Torres | 3-238 & Mrs. Dalamakis | 4-215 & Mrs. Greenbaum |
| 4-216 & Mrs. Collins | 5-214 & Miss Goldstein | 5-217 & Mrs. Naveh |
| Mr. Konikoff | Mr. Blum | Mr. Kaufman |
| | | Mrs. Entin |

Students Work that appears in this binder:

| | | | |
|------------------|---------------------|-------------------|------------|
| *Ashley Pina | *Kinge-Ann Marcelin | Dana Wizel | Judy Mai |
| *Zachary Mellado | Hannah Chang | Sabrina Wong | Michael Mo |
| Ahrisue Choi | Melissa Schneider | Sugie Chung | Sueun Hong |
| Jasen Checo | Michael Strassberg | Zachary Mellado | Ariel Yuan |
| Stephanie Chen | Kiara Pieere | Tanvir Agnihhori | Sarah Wang |
| Jessica Merkl | Carlin Huang | Harry Johnson | Alice Xu |
| Daniel Babar | Vanessa Moquillaza | Pradeep Tathineni | Jared Lane |
| Maya Ijeaku | Nicholas Zissiadis | Steven Weldon | Kevin Ko |
| Kalene Ruiz | Peggy Kwong | Jheanelle Lue | Irene Yoo |
| Gensis Bonds | David Shen | | |

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Summary

Of course we recycle paper and plastic like everyone else. The older children help the younger children learn what to do. Our students teach the new children the correct way to sort and recycle.

Many of the classroom teachers reuse things like the lunch milk containers; they make them into gingerbread houses.

One of the biggest reducing projects we have in our school is worm composting. It is a small project because it is a classroom bin. But this year our second and third graders did science fair projects to help they better understand the amazing abilities of these little creatures. In this binder you will see samples of their projects; though they are not yet complete I think you can see just how much they have learned about another way to reduce waste.

P.S.205Q
5-214

Ashley Pina
4/1/04

Recycling

I think people should recycle more. Recycling is good for the world. It is something that benefits everybody. At first when I was little I didn't know what recycling was or how you did it but I wanted to find out.

Someone told me my class was doing a recycling project. What we did was we collected milk cartons from the lunchroom and cleaned them. Then we brought in candy and treats. What we did was we made little ginger bread houses with the cartons. It was fun and we helped out.

Also I realized in our school there are recycle bins in our classrooms and every time I drop a paper in, I helped out. There is also a big blue recycle bin in the lunchroom so every time I drop my juice box in there I'm helping out and recycling.

So now I have realized that I help out the world everyday by recycling in school and at home.



Recycling

Hey kids recycle and your school and home will turn out like this!!!



P.S.205Q

5-214

Ashley Pina

4/1/04

Recycling

Recycling is something that you can do to help the world go round.

You can start with every little piece of paper you have found.

You pick it up and put it in the big blue recycling bin.

It really, really helps you see.

It helps everybody even you and me.

Recycling is good to do.

So let the recycling start with you.



The children in PS 205 carry out their science fair projects in school. Most of the work is done in the science room.

- First the children pick the general topic they would like to investigate as a class
- Then the Second Graders decide as a class what it is they are investigating (variable)
- Now each child starts to write their own investigation, the problem is copied from the board
- Then each child develops their own Hypothesis
- After that each child copies the Procedure as the experiment is started
- Each week every child records their own Observations
- When the experiment is done, each child will write their own Conclusion

Class 2-223 decided to investigate Earthworms and how quickly earthworms might consume different types of paper. They are still making their Observations.

Judy

Table 4

2-223

Feb 10, 2004

Earthworms

Problem - Which type of paper will the earthworms eat the most?

Hypothesis - I think the earthworms will eat tissues paper the most because it is thin and soft. Next it will eat the lined paper because it is easy to rip. After that they're going to eat the news paper because it is a little thin. Finally they will eat the paper towels because it is rough.

Procedure:

- Step 1 Dip up the tissues and wet them.
- Step 2 Put the wet tissues in one corner of the plastic box
- Step 3 Dip up some lettuce and mix it with the tissues
- Step 4 Cut the paper towels to the same size as the tissues
- Step 5 Repeat steps 1 to 3 but use the paper towels
- Step 6 Repeat steps 3 to 5 for the lined paper
- Step 7 Repeat steps 3 to 5 for the news paper



"which
one
is
thicker?"

2-223 Tearing Paper
for the investigation



"which
one
is
softer?"

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- Now each child starts to write their own investigation, the problem is copied from the board
- Then each child develops their own Hypothesis
- After that each child copies the Procedure as the experiment is started
- Each week every child records their own Observations
- When the experiment is done, each child will write their own Conclusion

Class 2-221 decided to investigate earthworms and how fast earthworms consume different vegetable scraps. They are ready to write up their Conclusion at their next science period, April 19.

Problem - Which types of food will earthworms eat the most?

Hypothesis - I think the earthworms will eat lettuce the most because lettuce is thin, soft, and light for the earthworms to eat.
Next I think the earthworms will eat the asparagus because the asparagus is a little hard but kind of soft to
I think the earthworms will eat the carrots the least because carrots are hard.

Abhishek

2-21
2/19/04

Procedure -

- Step 1 Rip up newspaper and put in the plastic box.
- Step 2 In one corner mix up the newspaper with asparagus pieces.
- Step 3 In the middle mix up newspaper with the carrot pieces.
- Step 4 In the other corner mix up newspaper with the lettuce.
- Step 5 Wet well with water.
- Step 6 Put 10 earthworms in the plastic box.
- Step 7 Cover all with a wet piece of newspaper.
- Step 8 Cover and put in a dark closet.

Step 9 Observe and record what happens every week.

Step 1 - Rip up newspaper
and put in the plastic box.



The children in PS 205 carry out their science fair projects in school. Most of the work is done in the science room.

- In third grade the children work together in groups of 5-6 children.
- Each group decides the topic they would like to investigate
- Then they decide as a group what it is they are investigating (variable)
- The children in the group take turns and share the work. They develop a Problem
- Then the group develops a Hypothesis
- After that the group develops and writes a Procedure as the experiment is started
- Each week someone records the Observations for the group
- When the experiment is done, together they will write the Conclusion for the group

3-238 Table 1 decided to investigate which vegetable scraps the earthworms will consume faster. They finished their Observations and will start their Conclusion later this week.

Ariel, Michael, Kiara, Zachary, JASEN, and Stephanie

3-238

Table #1

Feb. 5, 2004

Worms

Problems - What kind of food do ~~the~~ worms like the best?

No broccoli or coll. f. or etc...
Kiara - plastic shoebox
Zach - carrots, end of string beans ✓
Ariel - gloves, (plastic, rubber)
Mic - paper, (news paper, construction, etc.)
Jas - soil
Steph - markers, color pencils, etc...
(art stuff)

Table #1

Materials - loose leaf, plastic box, lettuce, carrots, string beans (the ends of them), water (1 and a half pithers), ruler, black paper, gloves and pencil (to record with)

Setting up the
investigation:



Rip up newspaper.

Steven W
Table, 3

3-2-6
3/1/04

Earthworms

Earthworms are also called night crawler. Earthworms live in moist, warm soil. Earthworms help plants to grow by breaking down the decaying matter in the soil. Earthworms eat dead plant material found in the soil. Earthworms don't have eyes or ears but they have a mouth. Earthworms don't have lungs or gills so they breathe through their thin skin. When the weather becomes too dry and warm an earthworm will die.

Some children researched facts to help with their Hypothesis.

Table # 3

Class 3-236

Date February 4, 2004

Kevin
Steven
Kalene
Nicholas
Peggy

1st Draft
work

Problem - What kind of materials will the earth worms go to? ~~the~~ most?

Hypothesis

We think that the earthworms will go to the ~~yard soil~~ ^{potting soil} the most. We think that only a few earthworms will go to the sand. We also think that a lot of earthworms will go to the ~~yard~~ ^{potting} soil.

We think this because yard soil has a lot of minerals. We also think because we know that earthworms like ⁱⁿ yard soil.

We think the most earthworms will go to the ~~yard~~ ^{potting} soil because yard soil is more moist and earthworms live in it. We think less earthworms will go to the ~~potting soil~~ ^{paper} because it is ~~more~~ softer and has a little minerals. We ~~also~~ think the least amount of earthworms will go to the paper because it is rough.

3-236
3/10/04

table 3

Procedure -

Step 1 - Cut up newspaper

Step 2 - Put wet newspaper in the plastic
~~box~~ box

Step 3 - Put in sand, ~~yard soil, potting soil~~
in one corner of the
box

Step 4 - Put salad in with the sand.

Step 5 - Mix the newspaper, sand +
vegetables together in the corner of
the box

Draft

Step 6 Repeat steps 3-5 but use the
potting soil in another part of
the box

Step 7 Repeat Steps 3-5 but use yard
soil in another part of the box

Step 8 - Put the earth worms in box

Step 9 - Close lid put box in dark place.

Step 10 Record what happens each week.

Draft

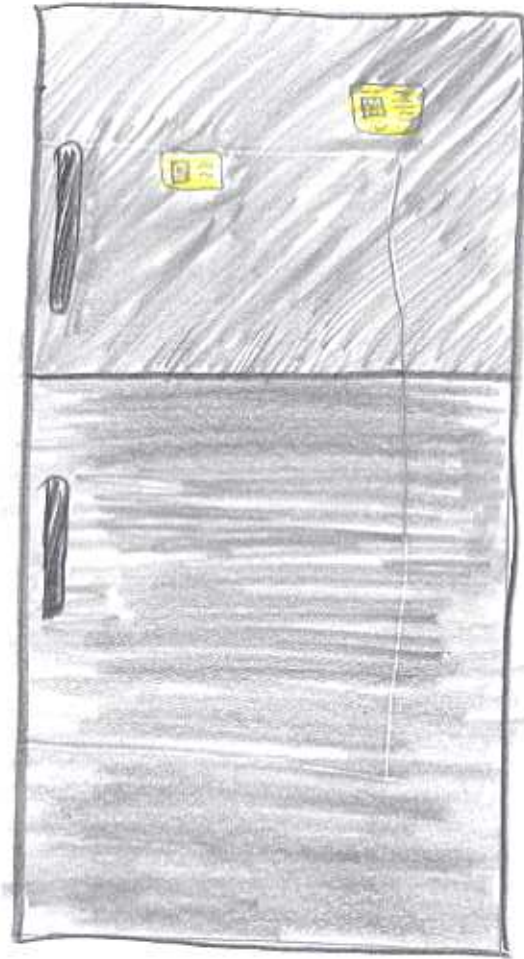
Class 3-236

Table 2

| Type of Material | Data Chart | | | Average |
|-------------------|------------|--------|--------|---------|
| | Week 1 | Week 2 | Week 3 | |
| 1. garden soil | | | | |
| 2. yard soil | | | | |
| 3. paver | | | | |

Hopefully will start next week if all materials are here.

I was once
told that saving
water is good
so I decided to
freeze water and
use it again



P.S. 205 Q.
Class 5-217

David Shen
February 25, 2004

Earth's Supply Is Low

Don't waste water,
'cause it's not very treacherous,
you need it every day,
so it's very precious.

Take a shorter shower,
and only when you need one.
Water is limited, as it endowers.

Turn the faucet off,
while you're brushin' your teeth.
Don't let the water leak,
'cause you're wastin' water.

The Earth's supply is low,
and it doesn't always rain.
So it's up to you,
To conserve the world's water.

Water

**Water is clear
Water is blue
Water is wasting
So we need you**

**We use it to drink
It comes from the sink
It quenches your thirst
And it's not the worst**

**It may not have a
Taste but that's no
Reason to waste**

**Water is clean
Water is blue
Water is wasting
So we need you**

Jheanelle Lue

Have the nerve

to conserve!

