

Mountain Park Green Schools Berkeley Heights

- Mountain Park School's 5th Grade Students



Looking the Part

- We made **Green Team Badges** to wear around our necks, which let other students/staff in the school building know that we were part of the "Green Team".



Now we really look like Scientists!



WE REACHED OUT TO SUMMIT MEDICAL GROUP, AND THEY GENEROUSLY DONATED LAB COATS FOR EVERY CHILD TO HELP WITH THIS "WONDERFUL UNDERTAKING"!

Tools for Assessment



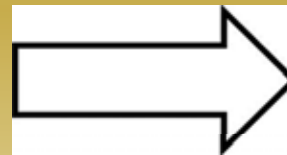
- We also used various **tools** to perform tests in all areas of the school to assess ways we could save energy. The following instruments were used:

- audio probe
- light meters
- thermometer/humidity pens
- infrared thermometers, watt meters.



Home and School Connection

- We brought several tools home so that our parents could see the savings when switching from incandescent to CFLs.
- Also, the watt meter helped our families to see how much electricity is used and also wasted at home. Wasted electricity means wasted money!



We Assessed every nook and cranny of our school !



Main Office & Classrooms...



The Faculty Room.....



...and the data keep coming!



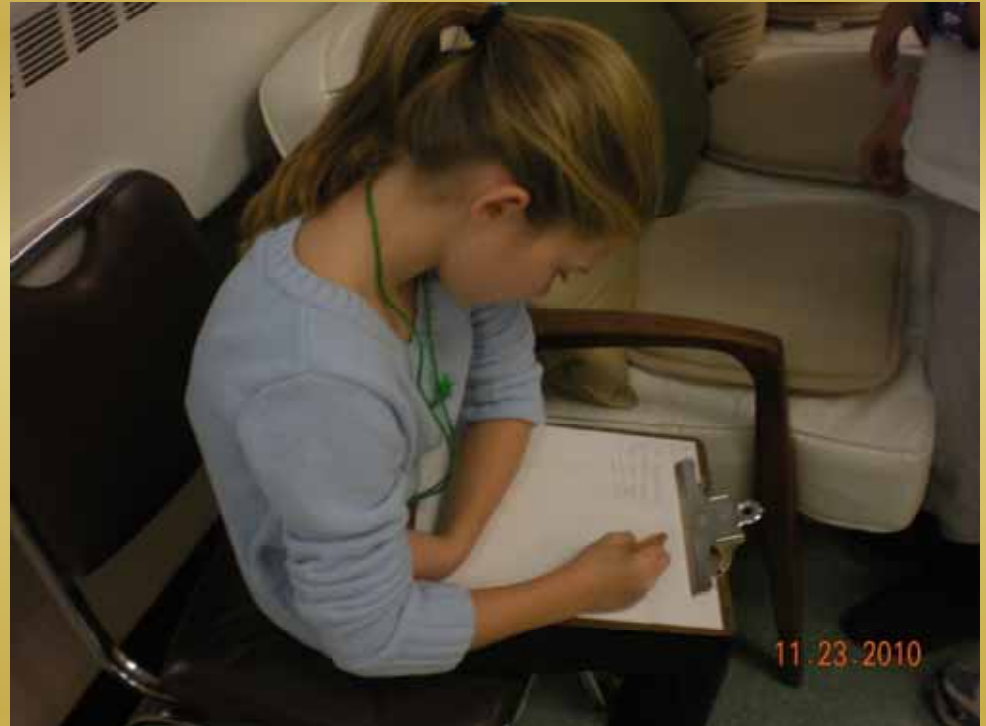
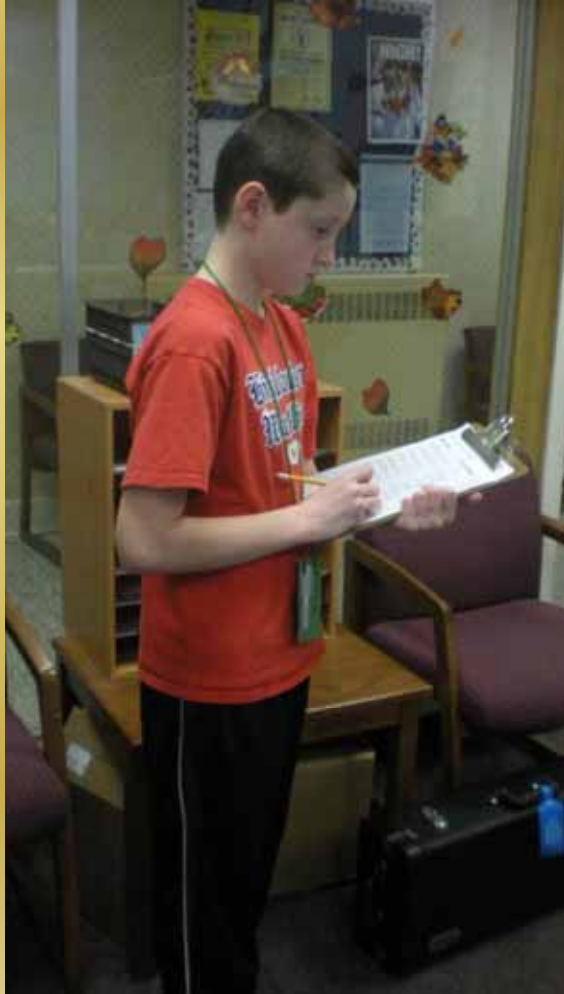
Radiators in Hallways...



Our Principal's Office



...and we kept recording!



Analyzing the data and coming up with a plan

- Finally, we met in groups to analyze our information and write recommendations to be presented to our principal and at a faculty meeting.



Summarize

- Our groups came together to summarize the findings and write a 10 minute presentation to present to grades 2-4. Small groups were assigned to each classroom.



Switch plate cover to remind everyone to conserve energy!

- Using a template, each of us created a **switch plate** cover which reminds students to conserve energy by turning off the lights. Every classroom received one after the presentation was given. More were made to cover other switches in the building.



Friday Night Lights Club

- Students stay after school and make sure all computers are shutdown for the weekend. (Especially the computer room, library, and other areas of the building where there are additional computers).



School -wide Trivia Board

- Another group of students are making a Trivia Board which will be displayed in the main hallway. Green Team volunteers have been assigned to choose a new, fun and interesting energy trivia question each week for the school to guess.



Our Recommendations:

Audio Probe

- Water fountain by Mrs. B's room- wind or draft behind wall.
- 4th-5th grade boys' bathroom sink (dripping sound in wall)
- Water fountain by Ms. H's room (dripping sound in wall)

Light Meter-

- 3rd grade wing- only need half the lights on (too many foot candles)
- 2nd-3rd grade Bathrooms- lights can stay off. Too many foot candles
- 4th-5th grade Bathrooms- lights can stay off. Too many foot candles
- Hallway by gym- lights can stay off. Too many foot candles

Thermometer/Humidity pen

- Library thermostat- 8 degrees off
- Main Lobby – 10 degrees difference
- Main Office- 18 degrees difference
- 4th-5th grade bathroom- Temperature is the highest and humidity is the lowest.

More Recommendations:

Infrared Thermometer

- *Possible drafts by:*
- Back door by Ms. Liming's room- 6 degree difference
- Ms. Whitsit's windows: 9 degree difference
- Window in 3rd grade boys' bathroom- 7 degree difference

Other Recommendations:

- Turn off all teacher computers every night because **towers** use 90% of the electricity
- Turn off student monitors every night because **monitors** use 90% of the electricity (that's the opposite of the teachers' computers: 170 Watts total. **monitor on = \$215/year off = .60/year**)
- Turn off Promethean Boards every night. Uses 223 watts
- Change any incandescent bulbs to CFLs (cost \$3 instead of \$1 but last 8 years longer and pay for themselves in the first 3 months)
- A 100watt regular (incandescent bulb) costs 23.00/year
- A 100watt CFL bulb costs \$5.75/year

Fi nal l y...

- Our Green Schools Project has helped to raise an awareness of energy conservation both in school and at home.

Thank you for this opportunity!!!



Online calculators for determining how much money you will save when converting from incandescent bulbs to CFLs

- http://springlightcfl.com/consumer/energy_savings_calculator.aspx
- <http://michaelbluejay.com/electricity/howmuch.html>