



Building Agricultural
Responsibility in Our
Neighborhood

Crellin Elementary School



Environmental Education
Laboratory



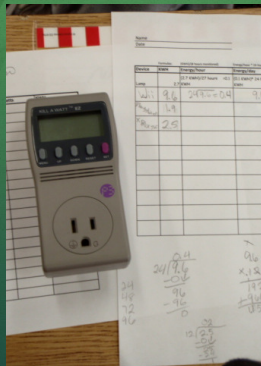
Crellin Elementary School Guiding Principles


1. Children should learn to care for the environment and know what it means to nurture another being.
2. Children will begin to understand the interconnectedness of all organisms.
3. Children will gain a sense of place and responsibility toward their community.

4. By doing actual labor, children will recognize the importance of their contributions in making our community work.
5. Spending time in nature will allow children to develop a strong connection to the natural world, and a future interest in protecting it.

Operation Conservation

- School-wide project
- Each grade studied an aspect of conservation
- These research studies led to our desire to teach and adopt sustainability practices





"We cannot have young people growing up without the knowledge, skills and attitudes to be productive members of our society."



Sunshine Farm
BARN: Building Agricultural Responsibility in Our Neighborhood

Encouraging Research



Kindergarten Scientists

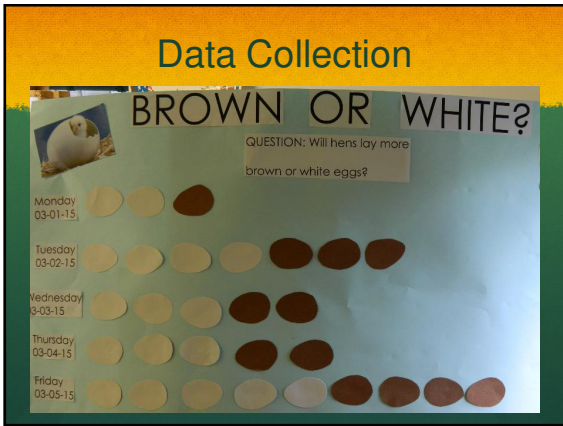


Gardening Indoors and Out!



More Brown or White Eggs?

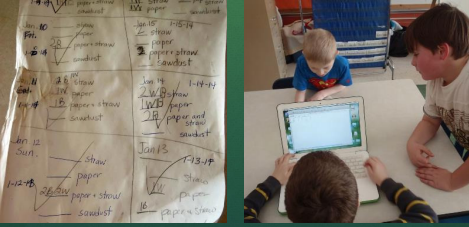








Data Collection Using an Excel Sheet



The image shows two parts: on the left, several sheets of handwritten notes detailing data collection for different dates (Jan 10, 11, 12, 13, 14, 15, 16) and materials used (straw, paper, paper + straw, sawdust). On the right, three children are gathered around a laptop, looking at the screen.

Students analyzed their data, drew conclusions, and shared their learning



The image contains two photos. The top photo shows a group of students and an adult teacher gathered around a table, looking at a large data chart or map. The bottom photo shows a young girl in a green shirt smiling and presenting to a group.

Second Grade Scientists Conduct Egg Research and Experiments



A group of approximately 20 children and one adult are posing for a group photo in front of a red barn with a white roof. The children are dressed in casual clothing.

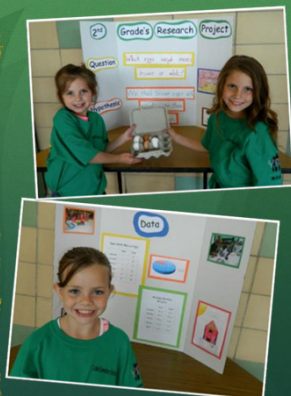
Packaging and Selling Eggs



Do brown eggs or white eggs weight most?



Presenting Research Findings



Third Grade
Scientists
Study Soil



Researching Soil Quality



Collecting and Observing Samples



Data Collection

Will have a higher Temp and the CO₂ will be differ from

Name of Chamber	Date	% CO ₂	Temp
Earthworm	11-22-14	10.9	20.6°C
Bacteria	11-22-14	10.9	20.2°C
Fungi (water)	11-22-14	14.4	21.9°C

Yesterday because there was not any duck tap on the chamber.

Sharing Their Learning





Extending Student Knowledge



Fourth Grade Scientists



How active are the sheep?

- Students wanted to monitor the sheep activities.
- Use of Fit Bit to monitor movement of sheep



Does the amount of fresh vegetables fed to hens effect egg production?



Composting





Fifth Grade Researchers
Solving Problems Through Research

We want to let the chickens roam in the schoolyard, but... there is a need to keep them safe from predators at night.



Learning about Solar Power











Learning to Cook





Planting,
harvesting,
cooking and
finally
eating!



Continuing Toward Sustainability

- Greenhouse
- Raised Beds
- Egg Production/Sales
- Rain Barrels
- Exploring Energy Resources
- Composting

Lessons Learned

- Start small – a garden or salad table
- Choose functional activities, be intentional
- Seek help from inside and outside the school
- Have students keep journals
- Document with photos
- Share learning
- Grants

Resources

- Extension Offices
- Garden Clubs/Master Gardeners
- Colleges and Universities
- [Backyard Chickens](#) by Lisa Steele
- "Living the Country Life" Magazine
