Bond Mill Elementary
Green School Application 2015
Bond Mill Green Culture

We, the students and staff of Bond Mill Elementary, Conserve Energy by turning off computer equipment, using light sensors, encouraging each other to walk, bike or take the bus to school and presenting announcements about energy conservation.

We are Reducing Water Pollution by trash pickup and installing storm drains.

We are Reducing Solid Waste by testing online, using refillable water bottles, recycling paper, magazines, cardboard boxes, plastic, cardboard trays, announcements and assemblies about recycling.

We are Restoring Habitats by creating a butterfly garden, planting and maintaining gardens on campus, and cleaning trash from grounds.

We are Using Structures for Environmental Learning by identifying plants and native species, clearing trails in woods to create an outdoor space for learning and cleaning trash in stream and forest.
Top Five Accomplishments @ Bond Mill Elementary

Accomplishment 1 - Developing nature trails and a Stream Ecology classroom on our campus.
Accomplishment 2 - Earth Day school community cleanup and beautification
Accomplishment 3 - Recycling Program & Assembly
Accomplishment 4 - Golden Shoe Award for class with highest responsible transportation
Accomplishment 5 - Environmental Awareness increased through partnerships
Title of Lesson/Activity: Annual Field Trip to Sharps Farm
Teacher Name: Ms. Shadman, Ms. Scepura, Ms. Heike, & Ms. Burke
Grade: Kindergarten

Brief Description of Lesson/Activity: Students take a field trip to Sharps Farm in Ellicott City. They learned about harvesting crops, the different animals on the farm, different uses for corn, bees and how plants are pollinated.

Kindergarten students from Ms. Shadman’s class enjoying the field trip in 2014.
Objective 1: Systemic Sustainability
1.1 Curriculum & Instruction: Environmental Issue Instruction

Title of Lesson/Activity: Trip to Bladensburg Waterfront Park
Date: February 2015
Teacher Name: Ms. Shadman, Ms. Scepura, Ms. Heike, & Ms. Burke
Grade: Kindergarten

Brief Description of Lesson/Activity: Students take a field trip to park to observe pollution on Anacostia River and what effect pollution has on the river and surroundings.

Kindergarten students enjoying the boat ride on the Anacostia.
Title of Lesson/Activity: Field trip to Sharp’s Farm
Date: Spring 2014
Teacher Name: Ms Nole, Mrs. Hyder, Ms Peel, Miss Collin
Grade: 1st Grade
Brief Description of Lesson/Activity: The first grade students observed animals and plants in the forest habitat. The students were looking for small animals that live in the stream habitat.

First graders looking for small vertebrates.
Objective 1: Systemic Sustainability
1.1 Curriculum & Instruction: Environmental Issue Instruction

Title of Lesson/Activity: Environmental Literacy Field Trip
Date: March 1, 2016
Teacher Name: Christy Hyder
Grade: 1st Grade

Brief Description of Lesson/Activity: Ms. Hyder’s class participated in the 1st Grade Environmental Literacy field trip that focuses on Bird adaptations, Soil Types, Animal Tracks, Dendrology, & Stream Ecology. The students also helped fifth graders clear the path for their use.
Title of Lesson/Activity: Building Rain Gauges
Date: October 2014, 2015
Teacher Name: Mr. Zak
Grade: 2nd Grade
Brief Description of Lesson/Activity: Second grade students are studying rain and how rain affects the environment. They made rain gauges to measure the amount of rain.
Title of Lesson/Activity: Habitat Dioramas
Date: Spring 2010-2015
Teacher Name: Mr. Zak, Mrs. Stepp, Mrs. Oldham, Mrs. Cole
Grade: 2nd Grade
Brief Description of Lesson/Activity: Students create and present a diorama representing the different habitats with animals using their surroundings for camouflage.
Objective 1: Systemic Sustainability
1.1 Curriculum & Instruction: Environmental Issue Instruction

Title of Lesson/Activity: Lorax Earth Day Activity
Date: April 2015
Teacher Name: Mrs. Albrecht
Grade: 3rd
Brief Description of Lesson/Activity: Students read and discussed Dr. Seuss’s book, The Lorax, and used art to show how they have a hand in saving the Earth.
Title of Lesson/Activity: Measuring amount of rain after rainfall.
Date: October 2015
Teacher Name: Mrs. Albrecht, Miss Folks, Mrs. Vernor, Mrs. Hobson
Grade: 3rd
Brief Description of Lesson/Activity: Students discussed how rainfall changes states in their discussion of the water cycle. Students also measure amount of rainfall.
Title of Lesson/Activity: Sunfish and Students
Date: November 2015- May 2016
Teacher Name: Ms. Savannah Jackson
Grade: 4th Grade
Brief Description of Lesson/Activity: Ms. Jackson’s 4th grade class participates in the Sunfish and Students program. The students are testing and monitoring the pH levels.

Students monitor water quality of the bluegill fish.
Title of Lesson/Activity: Sunfish and Students
Date: November 2015- May 2016
Teacher Name: Ms. Savannah Jackson
Grade: 4th Grade
Brief Description of Lesson/Activity: Ms. Jackson’s 4th grade class participates in the Sunfish and Students program. The students are learning about sunfish and their importance to the eco-system.
Objective 1: Systemic Sustainability
1.1 Curriculum & Instruction: Environmental Issue Instruction

Title of Lesson/Activity: Water Conservation
Date: November 2015-March 2016
Teacher Name: Mr. Haslup, Ms Jackson, Mrs. Fisher
Grade: 4th Grade

Brief Description of Lesson/Activity: Students in fourth grade studied their water footprint on Earth. Some of the students followed their Thanksgiving dinner and how different parts of their meal affected the water used to create it. Students discussed how they could conserve water in their daily lives.
Title of Lesson/Activity: Assateague
Date: Spring 2010 - 2015
Teacher Name: Miss Snider, Mr. Belton, Ms Lally
Grade: 5th
Brief Description of Lesson/Activity: The fifth grade goes on an extended day trip to Assateague Island. While there they learn about beach erosion, animal survival, habitat change and observing invertebrates and vertebrates in wetlands.
Objective 1: Systemic Sustainability
1.1 Curriculum & Instruction: Environmental Issue Instruction

Title of Lesson/Activity: Camp Schmidt
Date: December 2015
Teacher Name: Ms. Lally, Mr. Belton, Mrs. Kennedy
Grade: 5

Brief Description of Lesson/Activity: Each year the fifth grade students take an overnight field trip to Camp Schmidt to learn about their environment. While there, they take part in determining deer population, stream ecology, how weather changes their environment as well as working on their confidence and problem solving skills.
Objective 1: Systemic Sustainability
1.2 Professional Development

Environmental Education Professional Development

Teacher(s): Entire Bond Mill Staff
Date: October 30, 2015

Brief Description of the PD: Staff met to discuss Green School application and needs to complete for 2016 recertification. Staff participated in brainstorming ideas for grade level slides as well as school wide activities.

Bond Mill PD on October 30th

12:10
Dismissal Completed and Pizza Lunch is Served

12:15
Green School Recertification:
- Where are we in the process?
- What we need you to do to help?
- Green School Video

12:45
Technology Updates

Agenda from Faculty Meeting
Objective 1: Systemic Sustainability
1.2 Professional Development
Environmental Education Professional Development

Date: October 1, 2014
Hours: 8:30-3:30pm
Teacher: Kathy Jacobs
Brief Description of Lesson/Activity: Overview of the Maryland Green School application process; Teachers received training on storm drain stenciling, watershed lessons, and resourceful recycling activities.
Teacher(s): Rona Pemberton
Date: October 8, 2014
Brief Description of the PD: Green Team awareness and educational awareness programs.
Objective 1: Systemic Sustainability
1.2 Professional Development
Environmental Education Professional Development

1st Grade Program Professional Development

Teacher(s): Christy Hyder
Date: August 19, 2015
Brief Description of the PD: Teacher training on the five modules that will be taught during the First Grade Field Trip: Soil type, Tree Detectives, Animal Tracks, Pollinators, and Stream Ecology. Teachers receive classroom instructional resources for Environmental Education.

From: <EROAdmin@eschoolsolutions.com>
Date: Mon, Aug 24, 2015 at 2:10 PM
Subject: Prince George's County Public Schools - You have been marked attended.
To: Christina.Hyder@pgcps.org

Hello, Christina Hyder:

This message is to inform you that you have been marked Attended for the session listed below.

Course Title: First Grade Pilot Program Training Session
Course Code: EE44004
SRN: 44004150203
Session Dates: 08/19/15 @ 09:00 AM
Location: William S Schmidt Environmental Cntr

Registrant Notes:
Please bring a notebook and pen/pencil, re-fillable water bottle, sunscreen, bug spray (optional) and a snack. Dress for a day in the outdoors, including close-toed shoes.
Training will occur rain or shine.

An evaluation is required for full completion of this session. If you have not already done so, please go online to http://ero.eschoolsolutions.com/user/Login.taf?orgId=20772.
Objective 1: Systemic Sustainability

1.2 Professional Development

Environmental Education Professional Development

This training provided teachers with the content knowledge needed to successfully raise and release bluegill fish in the classroom.

Date: November 2015
Length of Time: 5 hours
Teachers’ Names: Savannah Jackson
Grade Level: 4th Grade
Teacher(s): Tracey Lally, Kimberly Snider
Date: November 18, 2014, 2015
Brief Description of the PD: Training of staff for Camp Schmidt obstacle course, building birdhouses, Green School Award Program and other activities related to 5th grade overnight trip.
Objective One: Systemic Sustainability
1.3 School-Wide Environmental Behavior Changes

Date: 2015

Brief Description of the PD: Here at Bond Mill, we have sensors to conserve energy.

Examples

- Light sensors
- Staff double sided photo copies
- Maintenance staff using green cleaners
Objective One: Systemic Sustainability
1.4 Celebration

School-Wide Event Title: Annual Earth Day Celebration
Brief Description of the celebration:
Each grade level works in their garden space to plant flowers brought in by students.

Parents attended the all-day beautification day in Spring 2015.

Ms. Krause coordinated the Earth Day Beautification Event in 2015
Objective 2: Student Driven Sustainability Practices

2.2 Energy Conservation
   - Energy Switchplates
   - Energy Saving Announcements

2.3 Solid Waste Reduction
   - Weekly Recycling
   - Recycling Assembly
   - Water Bottles

2.5 Structures for Environmental Learning
   - Create a Nature Trail to the Stream
   - Plant Identification on School Grounds

2.6 Responsible Transportation
   - Golden Shoe Award Program
   - Bike Riding/Bike Safety Program
Objective 2: Student Driven Sustainability Practices
2.2 Energy Conservation

Title of Activity: Energy Awareness
Date: 2015-2016
Teacher Name: Mrs. Pemberton and Gold Students
Grade: 4th and 5th grade
Brief Description of Energy Conservation Action: Students place “Turn Off Lights” reminder on switch plates around the school to help them understand that even they can help conserve energy.
Objective 2: *Student Driven* Sustainability Practices

2.2 Energy Conservation

**Title of Activity:** Energy Conservation  
**Date:** February 2016  
**Teacher Name:** Mr. Haslup  

**Grade:** Brief Description of Energy Conservation Action:  
Students in 4th grade researched ways that students and their families can conserve energy. These energy saving tips were reported to the entire school on afternoon announcements.
Objective 2: *Student Driven* Sustainability Practices

2.2 Energy Conservation

Title of Activity:
Date: December 16, 2015
Teacher Name: Ms. Folks, Ms Lally, Mr. Haslup
Grade: 3rd, 4th, & 5th Grade
Brief Description of Energy Conservation Action: Students intentionally reduce their energy consumption by turning some or all of the lights off in room.

Students in Ms. Folks class conserve energy by turning off the lights and sit on the carpet during instruction.
Objective 2: *Student Driven* Sustainability Practices

2.3 Solid Waste Reduction

Title of Activity: Single Stream Recycling
Date: September 2011-Present
Teacher Name: Ms. Pemberton & Ms. Jacobs
Grade: 4th & 5th grade
Brief Description of Solid Waste Reduction Action:
Students recycle weekly from each classroom and hallway bins.

Students recycling- 9/18/2015
Objective 2: *Student Driven* Sustainability Practices

2.3 Solid Waste Reduction

Title of Activity: Recycling Assembly  
Date: December 12, 2014  
Teacher Name: Ms. Jacobs & Ms. Pemberton  
Grade: 4th & 5th graders  

Brief Description of Solid Waste Reduction Action: The GOLD committee students had a recycling assembly to inform the students of the benefits of: reduce, reuse & recycling. Students played a Jeopardy game with categories of recycling. Students wrote the script and song that they performed during the assembly.

Fifth grade singers at the Recycling Assembly. December 12, 2014.
Objective 2: *Student Driven* Sustainability Practices

2.3 Solid Waste Reduction

Title of Activity: Bond Mill Water Bottles  
Date: August 2015 - present  
Teacher Name: Bond Mill students and staff  
Grade: Kindergarten - 5th grade  

Brief Description of Water Conservation/Pollution Prevention Action: All students were given a Bond Mill water bottle to use daily for drinking water. Students refill their water bottles rather than creating more waste.
Objective 2: *Student Driven* Sustainability Practices

2.5 Structures for Environmental Learning

Title of Activity: Nature Trails
Date: Jan-March 2016
Grade: 1st & 5th Grade

Brief Description of Structures for Environmental Learning Action: Fifth graders worked with staff from Camp Schmidt to clear a nature trail on the school’s campus. The trail will lead down to a stream, where all students will be able to conduct water quality testing and observations.
Objective 2: *Student Driven* Sustainability Practices

2.5 Structures for Environmental Learning

**Title of Activity:** Date: September 2011, 2012, 2013, 2014, 2015  
**Teacher Name:** Ms Lally, Mr. Belton, Miss Snider  
**Grade:** 5  
**Brief Description of Environmental Literacy Action:** Students utilize the gardens and surrounding forest to identify types of plants based on their seeds, leaves, growth patterns and flowers. Students identify plants native to the area.

5th graders identifying plants growing all over the campus, in gardens, and in the woods nearby
Objective 2: Student Driven Sustainability Practices
2.6 Responsible Transportation

Title of Activity: iWalk Program
Date: September 2010 - present
Teacher Name: All school
Grade: All grade levels

Brief Description of Responsible Transportation Action: Each morning a student tallies the number of students in their class that walked, took the bus, or rode their bike. At the quarterly honor roll the primary and intermediate class with the highest percentage of bus riders, bikers, and walkers receives the “Golden Shoe Award".
Objective 2: *Student Driven* Sustainability Practices

2.6 Responsible Transportation

Title of Activity: Bond Mill Bike Rider Licenses


Teacher Name: School-wide

Grade: K-5

Brief Description of Responsible Transportation Action: Bond Mill Elementary issues bike licences to promote bike commuting to school. Students are encouraged to ride their bikes to school everyday to reduce pollution and transport themselves in a healthy way. Bond Mill Elementary issues student biker licenses that may be revoked if students ride irresponsibly. Bike safety education is promoted at the school to ensure that students know how to ride safely. On any given school day, five to fifteen students make the greener choice and bike to school!

Student safety patrols make sure that bikers and walkers get to school safely.

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Objective 2: Student Driven Sustainability Practices

2.6 Responsible Transportation

Title of Activity: Bond Mill Bike Rider Licenses
Teacher Name: School-wide
Grade: K-5

The Bond Mill Student Biker License is an agreement between the school, student, and their parents.
Objective 3: Community Partnerships, Awards and Special Recognition

3.1 Community Partnerships

Organization/Company Title: USDA and the University of Maryland
Date: February 2016

Brief Description of Partnership: We have met with a doctoral candidate to do a site visit, and we hope that we will be chosen as a site to conduct a 2 year study on the grounds of Bond Mill. The Doctoral student will provide information to the teachers and students about the tick population. Students will count deer scat and look for other signs of deer population to help understand why the incidence of lyme disease is high in the West Laurel area.
Organization/Company Title: Soltesz
Date: February 2016 (ongoing)
Brief Description of Partnership: Soltesz Engineering Firm was contracted by Prince George’s County to improve storm water drainage, and runoff from impervious surfaces. The company surveyed the school grounds, is constructing storm water drains and helping incorporate stormwater mitigation into the curriculum.
Organization/Company Title: AbitibiBowater
Date: 2009 - 2014
Brief Description of Partnership: The Bond Mill School and community used Atibiti to recycle paper and magazines to help reduce paper in the county landfill. With the community’s help, Bond Mill was able to collect the largest amount of recycled paper in Prince George’s County. This project continued until the company no longer provided the services.
Organization/Company Title: Camp Schmidt, DNR

Date: 2015-2016 school year

Brief Description of Partnership: The fourth grade students in Ms Jackson’s class are raising sunfish to reintroduce to the Maryland Waterways. The students control the pH of the water, temperature and learn about the importance of healthy fish to help create a healthy Bay in Maryland.