Bay Backpack

School Grounds for Learning

Review

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- Establish Your Team
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- Survey the School C
- Brainstorm Schooly

NEXT: School Ground

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   - *Field Notes*
   - *Soil Texture*

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About The School Grounds for Learning Project

Separate Page
Anchor link - callout

The *School Grounds for Learning Project* is an initiative funded by the NOAA-BWET grant program and supported by a partnership between the U.S. Fish & Wildlife Service and the Maryland Association for Environmental Education with the invaluable support of national and regional partner organizations and topical experts. This exciting project will provide professional development opportunities and comprehensive online resources featuring detailed information and instructions to enable students, teachers, administrators & school facilities personnel to effectively plan, utilize and sustain a vast variety of environmental projects on school grounds including:

- **Projects to provide habitat for wildlife**
- **Projects to improve water quality**
- **Projects to support a healthy school environment**
- **Projects to reduce environmental impact & cost**
- **Projects to encourage outdoor learning, play & discovery**

Learn more about the School Grounds for Learning Project: *(Each of the below links to a corresponding anchor lower on this page)*

- Who is developing *School Grounds for Learning Project* resources?
- Who is the target audience for *School Grounds for Learning* resources?
- What is the timeline for all of the online resources to be available?
- Why do we need the *School Grounds for Learning Project?*
- School Grounds for Learning Project Overview: downloadable pdf

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Who is developing *School Grounds for Learning Project* resources?

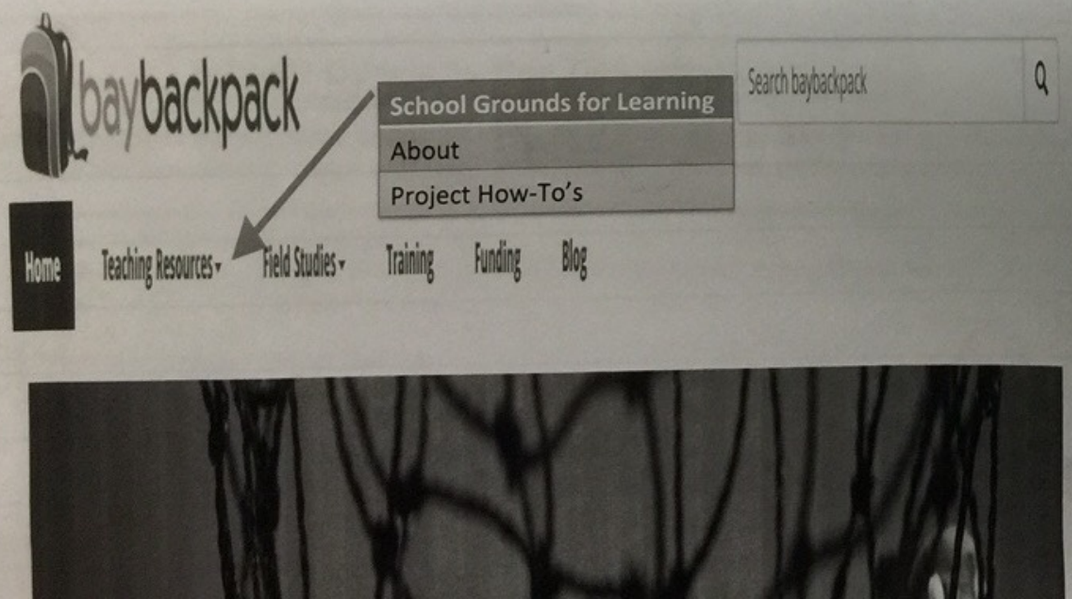
To ensure the content is useful and applicable to a wide audience, contributors include: national & regional partner organizations representing a variety of interests including education, conservation & restoration; outdoor environmental education centers working with school grounds projects; school facilities management & personnel; teachers & administrators who have developed sustainable projects on their school grounds and have integrated their use into instruction; agency & non-governmental organizations developing best practices for the enhancement of school grounds to improve water quality, increase habitat value, support innovative agriculture programs and more; landscape architects with expertise in innovative design of school grounds; and topical experts in a variety of fields.

***Who is the target audience for the School Grounds for Learning Project* resources?**

With the support of the above-mentioned partners and contributors, these resources are being thoughtfully developed to provide targeted information for use by students, teachers, administrators and school facilities personnel interested in effectively designing, enhancing, utilizing and sustaining environmental projects on their school grounds.

What is the timeline for all of the online resources to be available?

Initiated in 2014, the School Grounds for Learning Project is a three-year effort. A comprehensive new online environmental literacy section was added in January 2015, featuring information on national, regional and local environmental literacy initiatives, including the Maryland environmental literacy standards & graduation requirement and efforts to support implementation. Project sections are currently under development. Sections will be reviewed by stakeholders and contributors, and added gradually beginning in 2015 on the NOAA Bay Backpack and MAEOE web sites. Resources will be monitored and updated accordingly to ensure that the content is current and correct. For more information please contact Laura Collard at director@maeoe.org.



1 woodland Main

SCHOOL GROUNDS FOR LEARNING

↓

Project How-To's

↓

Projects to Provide Habitat for Wildlife

- Woodlands
- Wetlands
- Native Plants & Invasive Species
- Meadows
- Streams
- Grow-Out Stations
- Wildlife Habitat Projects (nesting boxes, snags, etc.)

↓

1 Woodland Main

2a Planning | 2b Assess Site | 2c Design | 2d Implementation | 2e Maintenance | 2f Using | 2g Sharing

3Woodland Starter Projects ↓
--3a Planting Basics (3a1-3)
--3b Micronursery
--4c Wildlife Habitat Features

4 Woodland Enhancement Projects ↓
--4a Healthy Forest Mgt (4a1-3 & 4b)
--4b Adding Other Woodland Plants
--4c Wildlife Habitat Features

5 Forest Buffers ↓
--5a Planning Tips
--5b Establishing
--4a Healthy Forest Mgt

6 Permaculture

Implementation:
- Tips for Establishing a Successful Buffer (links to 5b)
- Project Implementation Basics *(links to 2d)*

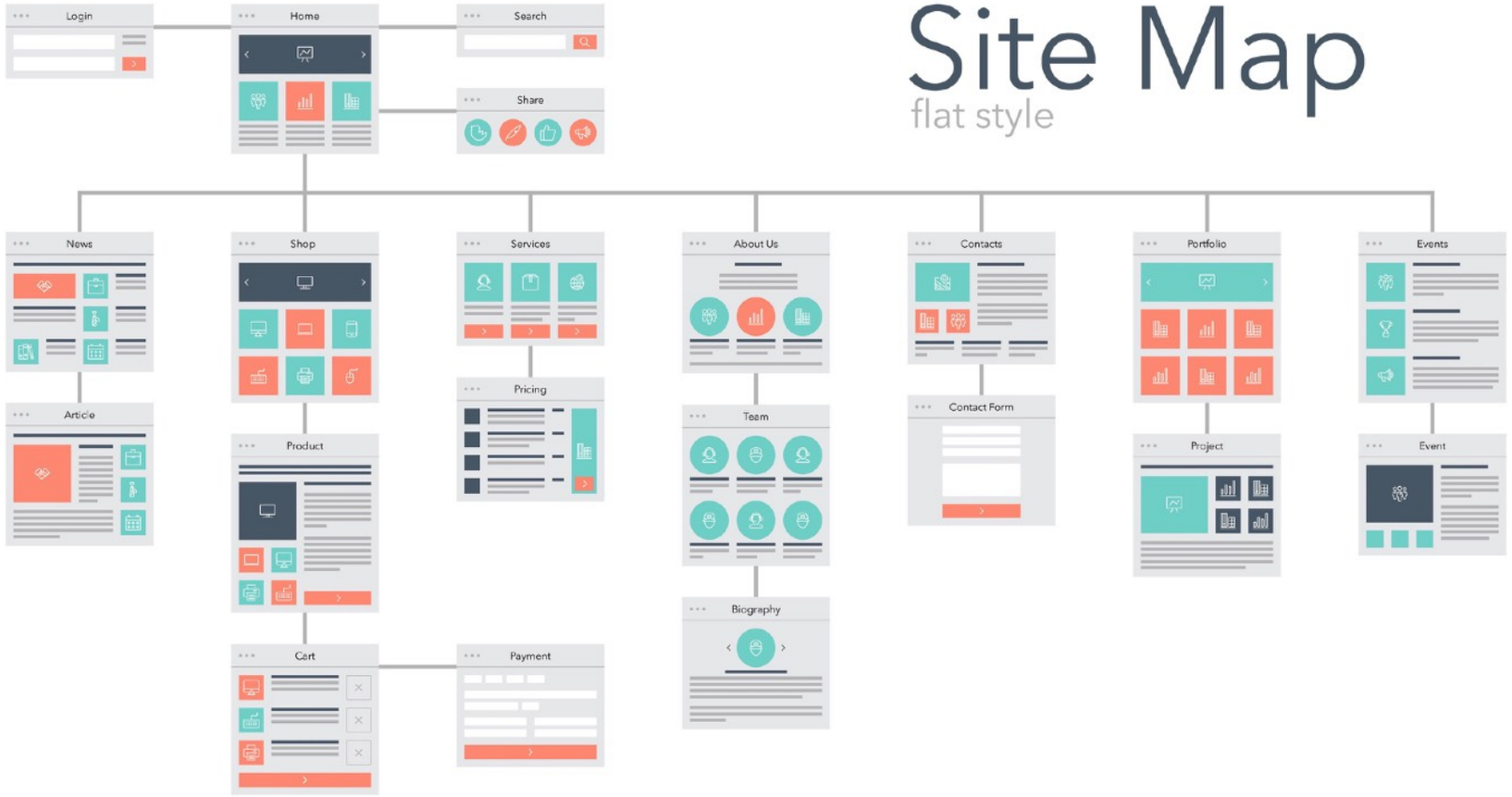
Project Maintenance (Short-Term & Long-Term):
- Tips for Effective Buffer Maintenance (links to Healthy Forest mgt 4a)
- Project Maintenance Basics *(links to 2e)*

Using Your Project:
- Using Your Project Overview *(links to 2f)*

Sharing Your Project *(links to 2g)*

Resource & Training Center:
- Tree & Woodland Project Resources
- Main Resources & Training Center
- Case Studies

Consider IA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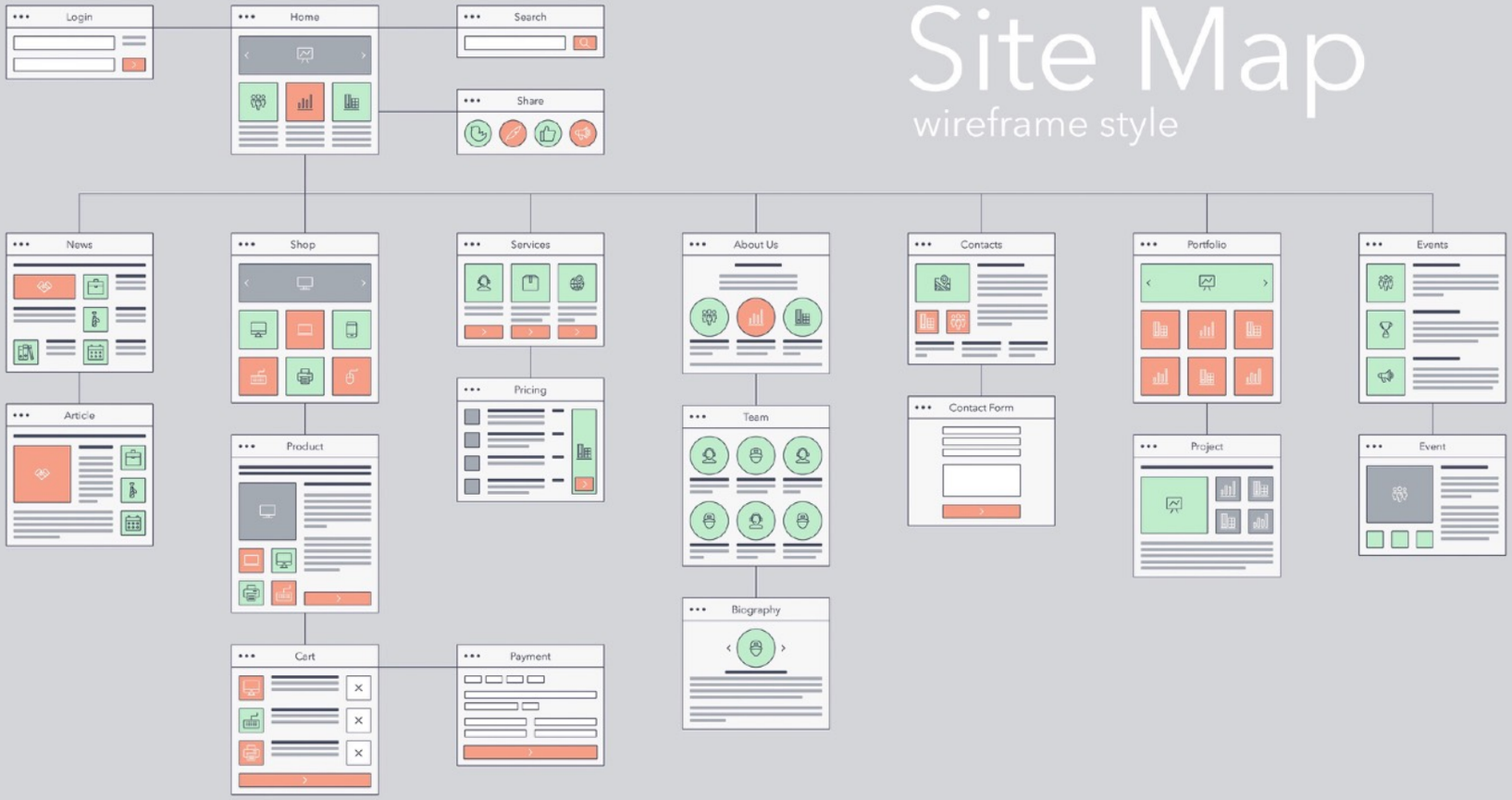
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Sketch

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IMAGE

Breadcrumbs / Breadcrumbs

SCHOOL GROUNDS FOR LEARNING PROJECT (Green Schools)

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WILDLIFE HABITAT

TEXT

IMG

WATER QUALITY

TEXT

IMG

HEALTHY SCHOOL ENVIR.

TEXT

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THE BASICS (2)

PROJECT PLANNING BASICS (+) → Accordion or Links

- Establish Team
- Brainstorm
- Survey
- Brainstorm

SITE ASSESSMENT (+)

PROJECT DESIGN BASICS (+)

PROJECT IMPLEMENT BASICS (+)

PROJECT MAINTENANCE BASICS (+)

USING YOUR PROJECT

SHARING YOUR PROJECT

LOGO

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IMAGE

SGL / Wildlife Habitat Projects

WILDLIFE HABITAT PROJECTS

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WOODLANDS

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MEADOWS

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WETLANDS

TEXT?

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STREAMS

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NATIVE PLANTS & ETC.

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GROW-OUT STATION

THE BASICS (2)

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SGL / Wildlife Habitat Pro's / WOODLANDS

WOODLANDS PROJECTS

TEXT

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STARTER PROTECTS

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THE BASICS (2)

- ob Project Page

Starter projects

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2 -

3 -

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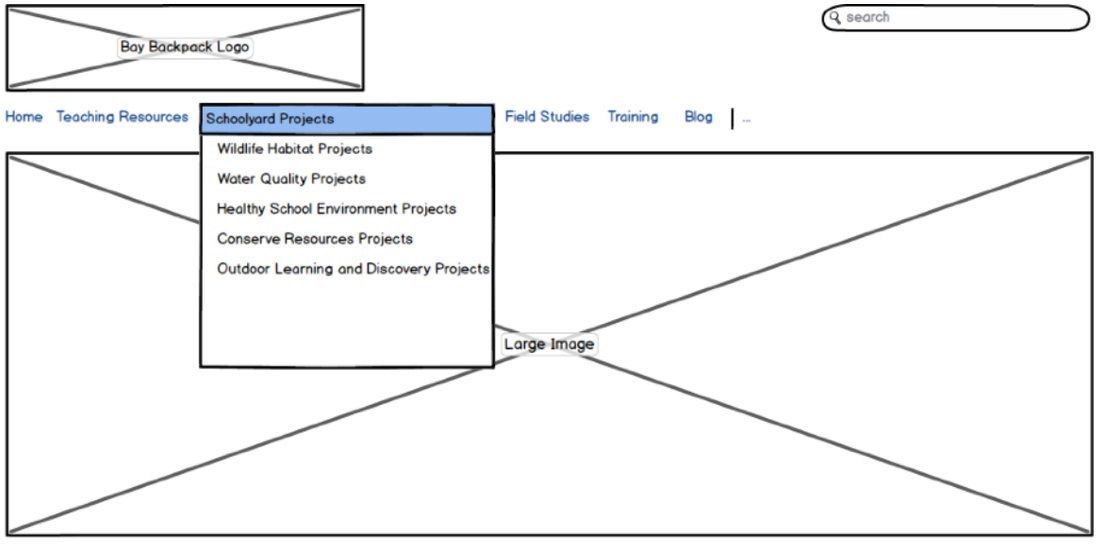

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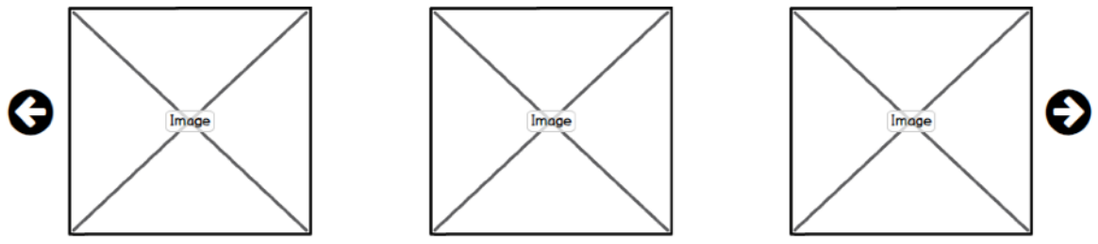
Blog One Title

Blog Two Title

Blog Three Title

Blog Four Title

Resources
Resource 1
Resource 2
Resource 3
Resource 4
Resource 5



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Wildlife Habitat Projects

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ABOUT

The School Grounds for Learning Project is a new initiative funded by the NOAA-BWET grant program and supported by a partnership between the U.S. Fish & Wildlife Service and MAEOE, in cooperation with the Maryland State Department of Education and the Maryland Department of Natural Resources.

Read More >>

Image

Woodlands

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Image

Wetlands

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Image

Native Plants and Invasive Species

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Image

Meadows

[redacted]

Image

Streams

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Image

Grow-Out Stations

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Wildlife Habitat Projects

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The School Grounds for Learning Project

Project Importance

Environmental Literacy +

Achieving Green School Status +

Achieving U.S. Green Ribbon School Status +

Project Benefits for Students, Schools & the Environment +

Resource Development

Target Audience

Resource Timeline

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Woodlands Projects

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Image

Woodland Starter Projects

Image

Woodland Enhancement Projects

Image

Forest Buffers

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Permaculture

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Woodland Starter Projects

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Image

Tree and Shrub Planting

Image

Tree & Shrub Nursery

Image

Provide & Enhance Wildlife Habitat

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Tree and Shrub Planting

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Project Planning Basics

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Establish Your Team

Brainstorm Schoolyard Ideas

Survey the School Community

Brainstorm Schoolyard Possibilities

Next: School Grounds Site Assessment >>

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Mockup Desktop

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- Conserve Resources Projects
- Outdoor Learning and Discovery Projects

Recent Blog Posts

President Celebrates STEM at the 3rd White House Science Fair

June 02, 2014 by Julie Walker

President Obama celebrated students achievements in STEM by hosting the third annual White House Science Fair on May 27 2014. 30 states were represented in the group of 100 hundred students. From designing new apps, to solar panels, to making football helmets more concussion proof projects encompassing a wide range of STEM fields. This year the fair had a special focus on encouraging girls to pursue a career in science

Read more >>

Come Celebrate Maryland's Green Schools at MAEOE Green Schools Youth Summit!

June 02, 2014 by Julie Walker

The Maryland Association for Environmental and Outdoor Education (MAEOE) will honor the 133 schools that have successfully fulfilled the requirements of the Maryland Green Schools Program at the MAEOE Green Schools Youth Summit on May 30, 2014 at beautiful Sandy Point State Park in Annapolis. The Youth Summit presents students and teachers with an opportunity to be recognized for their leadership in enacting significant change in their communities, while the Summit's interactive sessions provide a platform for them to build upon the skills and knowledge that they have already acquired during the Maryland Green Schools certification process.

Read more >>

Inspiring Future Green Leaders

June 02, 2014 by Julie Walker

If you are high school teacher (and maybe even if not) now is the time of year that student will be reaching out for guidance on the future. With questions ranging from colleges, tech schools, majors, careers, and life in general. Many times it is difficult and stressful to pick just one interest to pursue. But that's where your sage wisdom comes in handy. Many careers today require a multitude on interest, especially careers involving the environment.

Read more >>

Resources

- FieldScope: Explore this interactive mapping system.
- Green School Program: Ways to make your school
- No Child Left Inside: Learn about this exciting program.
- CBIBS Curriculum: Use real-time data to teach the Bay.
- United States Global Change Research Program
- National Science Teachers Association (NSTA)



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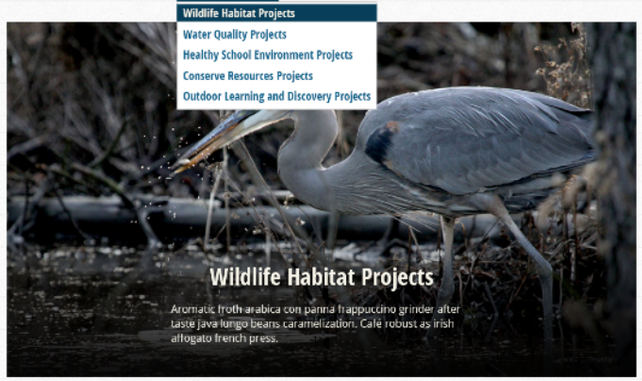

Wildlife Habitat Projects

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Wildlife Habitat Projects

The Chesapeake Bay is a diverse and productive ecosystem that supports more than 2,700 species of plants and animals both on land and in the water. Bay animals can be some of the most charismatic organisms in the Bay and include a variety of fish, shellfish, birds, and mammals. Each species plays an important role in the Bay food web and relies on a healthy Bay ecosystem to survive. A healthy ecosystem is one with a balanced food web — not too much production or consumption of any one of the producers or consumers. For example menhaden must have enough plankton available to sustain themselves. Striped bass and bluefish, part of a higher trophic level, rely on menhaden and bay anchovies as their primary food source.

An ecosystem must be enormously productive to support substantial populations of species at the highest trophic levels. For example, for every pound of commercial fish taken from the Bay, almost 8,000 pounds of underlying producers and consumers had to be produced.

Like any other system, the Bay ecosystem is composed of interrelated parts that interact with each other to form a whole. All of the plants and animals the bay ecosystem depend on each other in some way. Every living thing needs a healthy ecosystem to survive. Human activities affect the Chesapeake Bay ecosystem by adding pollution, using resources and changing the character of the land. However, we can make better choices in our everyday lives to lessen our footprint on the Bay ecosystem's health.

About

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Projects

Woodlands

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Read more >>

Wetlands

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Read more >>

Native Plants and Invasive Species

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Read more >>

Meadows

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Read more >>

Streams

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Read more >>

Grow-Out Stations

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Read more >>

Wildlife Habitat

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Read more >>

Schoolyard Projects

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Project Importance

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Environmental Literacy

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Achieving Green School Status

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Achieving U.S. Green Ribbon School Status

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Project Benefits for Students, Schools and the Environment

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Resource Development

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Target Audience

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Resource Timeline

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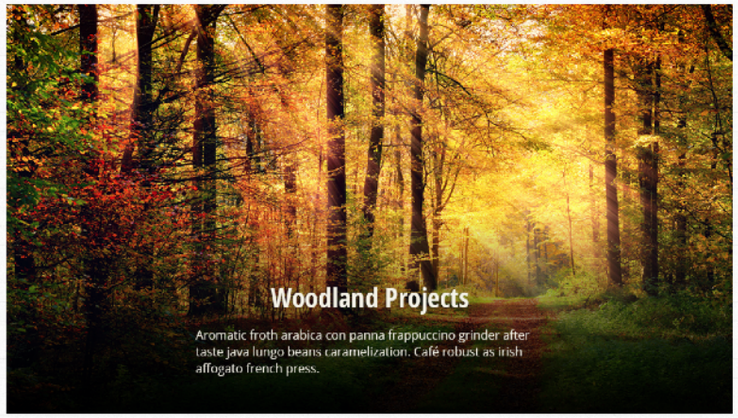

Woodland Projects

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Project Basics
- Project Planning Basics
- School Grounds Site Assessment
- Project Design Basics
- Project Implementation & Installation
- Project Maintenance Basics
- Using Your Project
- Sharing Your Project

Projects

Woodland Starter Projects
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Read more >>

Woodland Enhancement Projects
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Read more >>

Forest Buffers
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Read more >>

Permaculture
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Projects

Woodlands ▾
- Woodland Starter Projects
- Woodland Enhancement Projects
- Forest Buffers
- Permaculture

Wetlands ▾

Native Plants & Invasive Species ▾

Meadows ▾

Streams ▾

Grow-Out Stations ▾

Wildlife Habitat ▾

Tree & Shrub Planting

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Tree & Shrub Nursery

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Provide & Enhance Wildlife Habitat

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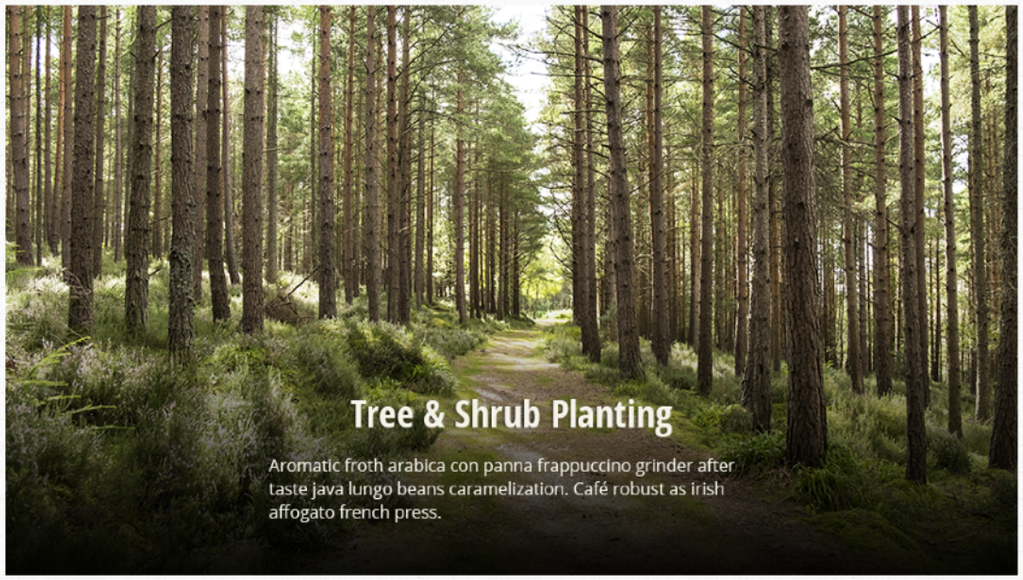

Tree & Shrub Planting

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- Project Maintenance Basics
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- Sharing Your Project

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Forests for the Bay Landserver Property Mapping Tool

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Implementation

Site Preparation & Planting Instructions

Site Management: Short and Long Term

Tree and Shrub Maintenance Tips

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Project Planning Basics

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Establish Your Team

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Brainstorm Schoolyard Ideas

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Survey the School Community

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Mockup Mobile

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President Celebrates STEM at the 3rd White House Science Fair

June 02, 2014 by Julie Walker

President Obama celebrated students achievements in STEM by hosting the third annual White House Science Fair on May 27 2014. 30 states were represented in the group of 100 hundred students. From designing new apps, to solar panels, to making football helmets more concussion proof projects encompassing a wide range of STEM fields. This year the fair had a special focus on encouraging girls to pursue a career in science

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Wildlife Habitat Projects

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An ecosystem must be enormously productive to support substantial populations of species at the highest trophic levels. For example, for every pound of commercial fish taken from the Bay, almost 8,000 pounds of underlying producers and consumers had to be produced.

Like any other system, the Bay ecosystem is composed of interrelated parts that interact with each other to form a whole. All of the plants and animals the bay ecosystem depend on each other in some way. Every living thing needs a healthy ecosystem to survive. Human activities affect the Chesapeake Bay ecosystem by adding pollution, using resources and changing the character of the land. However, we can make better choices in our everyday lives to lessen our footprint on the Bay ecosystem's health.

Projects

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Schoolyard Projects

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Project Importance

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Environmental Literacy

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Achieving Green School Status

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Achieving U.S. Green Ribbon School Status

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Project Benefits for Students, Schools and the Environment

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Resource Development

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Target Audience

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Resource Timeline

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Woodland Projects

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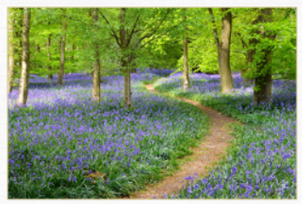

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Project Basics

- Project Planning Basics
- School Grounds Site Assessment
- Project Design Basics
- Project Implementation & Installation
- Project Maintenance Basics
- Using Your Project
- Sharing Your Project

Woodland Starter Projects

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Tree & Shrub Planting

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Tree & Shrub Nursery

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Provide & Enhance Wildlife Habitat

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Tree & Shrub Planting

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Step 5: Mockup Desktop

Next Steps

- Hire support intern
- Review mockup
- Provide feedback
- Make changes
- Team meeting
- Begin work