



# Opportunities and Resources for Environmental Education in Florida

## A Webinar for KAB Affiliates of Florida

- FL DOE initiatives: STEM & CPALMS for non-formal educators
- Service learning opportunities on public lands
- Florida Green School Network & Awards



Sept. 3, 2015  
10:30 am - 12 pm



GoToMeeting

## Agenda

1. Housekeeping Items
2. Welcome/KFB Update
3. STEM and CPALMs
4. Public Land Volunteers
5. Green Schools
6. Moving Forward



**OVERVIEW:  
GREG IRA**



# WELCOME & UPDATE: MARY JEAN YON





# STEM AND CPALMS: JONATHAN KEENER FDOE



FLORIDA DEPARTMENT OF  
**EDUCATION**  
fldoe.org

# STEM/CPALMS: About



Home | Academics | Standards & Instructional Support | Content Areas | Mathematics, Science & STEM Programs | Mathematics, Science & STEM Programs

STEM PROGRAMS

Mathematics, Science & STEM Programs

**CPALMS** Where Educators Go For Bright Ideas

HOME  
of CPALMS

STANDARDS  
Info. & Resources

COURSE  
Descriptions & Directory

RESOURCES  
Vetted by Peers & Experts

Homepage

Login To My Account

Social Media

Visit FLDOE

Florida

- STEM and DOE
- CPALMS a resource for educators

STEM = Science, Technology, Engineering and Mathematics

CPALMS = Curriculum Planning and Learning Management System

# Standards:

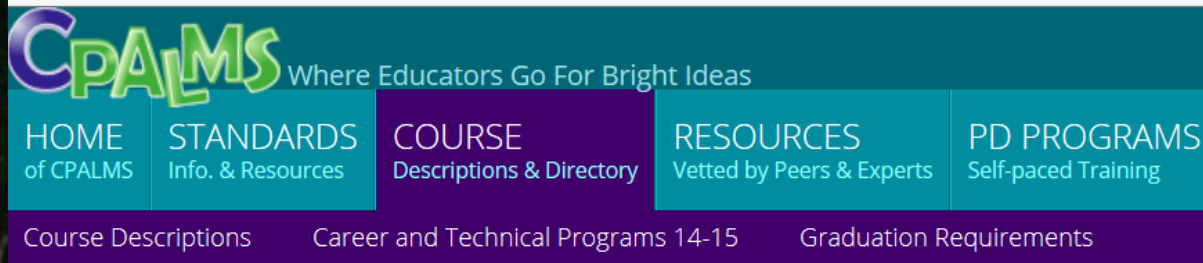
The screenshot shows the CPALMS website navigation menu. At the top, there is a browser address bar with various tabs and a search bar. Below the browser bar is the CPALMS logo and the tagline "Where Educators Go For Bright Ideas". The main navigation menu consists of five teal buttons: "HOME of CPALMS", "STANDARDS Info. & Resources", "COURSE Descriptions & Directory", "RESOURCES Vetted by Peers & Experts", and "PD PROGRAMS Self-paced Training". Below these buttons is a secondary navigation bar with links for "Standards", "Access Points", "Print/Export Standards", "Content Complexity Rating", and "Coding Sch".

## Science

- Grade: K
- Grade: 1
- Grade: 2
- Grade: 3
- Grade: 4
- Grade: 5
- Grade: 6
- Grade: 7
- Grade: 8
- Grade: 912



# Course Descriptions



## M/J STEM Environmental Science (#2002200)

### More Information

**Section:** Grades PreK to 12 Education Courses

**Grade:** Grades 6 to 8 Education Courses

**Subject:** Science

**Sub-Subject:** General Science

## Introduction to Environmental Technology (#8913010)

### More Information

**Section:** Career and Technical Education

**Program:** Water Resources Technology (8916000)

**Program Version:** Water Resources Technology

## Environmental Science (#2001340)

### More Information

**Section:** Grades PreK to 12 Education Courses

**Grade:** Grades 9 to 12 and Adult Education Courses

**Subject:** Science

**Sub-Subject:** Environmental Science

**Program Version:** Public

## Advanced Placement Environmental Science (#2001380)

### More Information

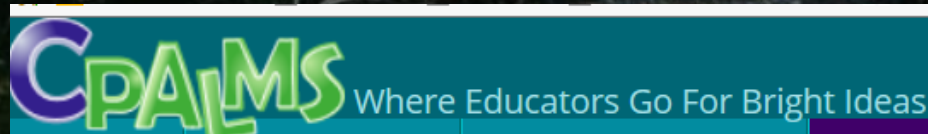
**Section:** Grades PreK to 12 Education Courses

**Grade:** Grades 9 to 12 and Adult Education Courses

**Subject:** Science

**Sub-Subject:** Environmental Science

# Resources



Where Educators Go For Bright Ideas

<b>HOME</b> of CPALMS	<b>STANDARDS</b> Info. & Resources	<b>COURSE</b> Descriptions & Directory	<b>RESOURCES</b> Vetted by Peers & Experts	<b>PD PROGRAMS</b> Self-paced Training
Browse/Search	MFAS-Formative Assessments	Perspectives STEM Videos	MEAs - STEM Lessons	
Resource Development Programs	Review Process	Text Complexity Resources	Beyond Standards	

## Environmental Awareness: How are Humans...

In this lesson, students will examine different...

### **Primary Resource Type:**

Lesson Plan

**Subject(s):** Social Studies, English Language Arts

**Grade Level(s):** 9, 10, 11, 12

**Intended Audience:** Educators

**Collection:** CPALMS Lesson Plan Development Initiative

**More Information**

## Citizen Science

In this National Science Foundation video and...

### **Primary Resource Type:**

Video/Audio/Animation

**Subject(s):** Science

**Grade Level(s):** 9, 10, 11, 12

**Intended Audience:** Educators, Students

**Collection:** BIOSCOPES General

**More Information**

## Negative Impacts of Oil Spills

Learn how the Woods Hole Oceanographic...

### **Primary Resource Type:**

Perspectives Video: Expert

**Subject(s):** Science

**Grade Level(s):** 9, 10, 11, 12

**Intended Audience:** Educators, Students, Parents

**Collection:** CPALMS Perspectives Videos - General

**More Information**



# STEM/CPALMS: Examples

Organizations  
aligned to Florida  
Standards:

- Navy ROV program
- Army  
eCybermission
- Envirothon
- WeatherSTEM
- Greening STEM
- Earth Rangers



## Greening STEM Toolkit



Compiling activities and resources from five former toolkits on gardens, energy, geography, water and climate, this toolkit is your ultimate easy-to-use guide for lessons in greening STEM.



# STEM/CPALMS: Get Started

## 1. Search Standards - “environment”

▼ Related Tips/Tutorials

### Browse and Search Standards

You can apply different filters and search terms to browse the Standards



Subject ▼

Grade ▼

# STEM/CPALMS: Get Started

## 2. View Standards

### SC.912.E.6.6

Analyze past, present, and potential future consequences to the .....

#### More Information

**Content Complexity:** Level 3: Strategic Thinking & Complex Reasoning

**Date Adopted/Revised:** 02/08

**Belongs to:** Earth Structures

### HE.912.C.1.3

Evaluate how environment and personal health are interrelated.

#### More Information

**Content Complexity:** N/A

**Date Adopted/Revised:** 12/08

**Belongs to:** Comprehend concepts related to health...

### PE.912.C.2.9

Explain the precautions to be taken when exercising in extreme weather and/or environmental conditions.

#### More Information

**Content Complexity:** N/A

**Date Adopted/Revised:** 02/14

**Belongs to:** Identify, analyze and evaluate movement...

# SC.912.E.6.6

Analyze past, present, and potential future consequences to the environment resulting from various energy production technologies.

**Subject Area:** Science

**Grade:** 912

**Body of Knowledge:** Earth and Space Science

**Standard:** [Earth Structures](#) - The scientific theory of plate tectonics provides the framework for much of modern geology. Over geologic time, internal and external sources of energy have continuously altered the features of Earth by means of both constructive and destructive forces. All life, including human civilization, is dependent on Earth's internal and external energy and material resources.

**Date Adopted or**

**Revised:** 02/08

**Content Complexity Rating:** Level 3: Strategic Thinking & Complex Reasoning - [More Information](#)

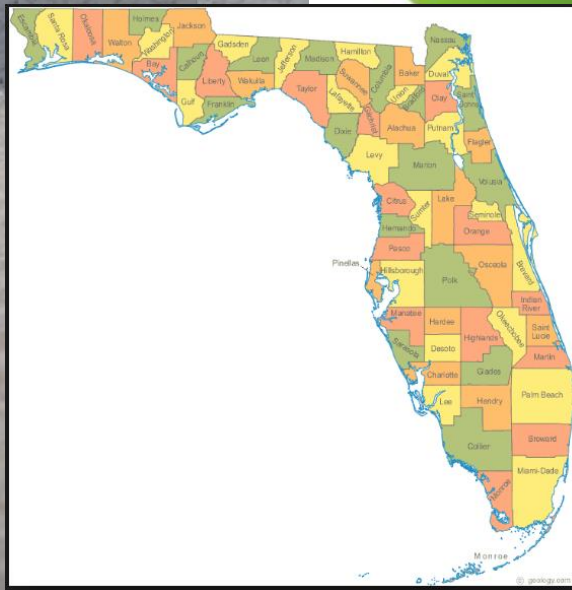
**Date of Last Rating:**

05/08

**Status:** State Board Approved

3. Click on the standard for more information

# 4. Align your resources to state standards



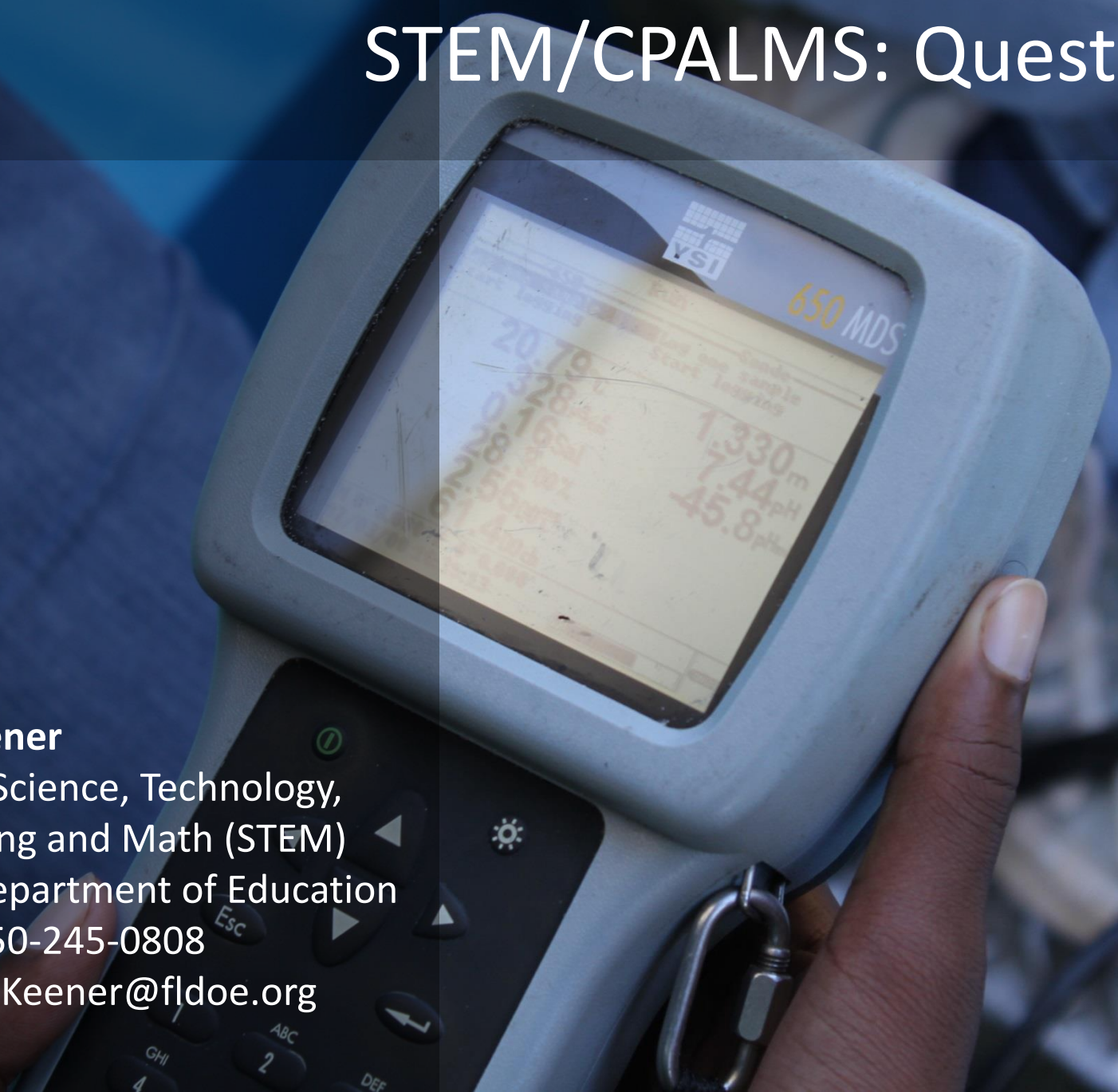
SC.912.E.6.6

# STEM/CPALMS: Questions

**Dr. JP Keener**

Director, Science, Technology,  
Engineering and Math (STEM)  
Florida Department of Education  
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[Jonathan.Keener@fldoe.org](mailto:Jonathan.Keener@fldoe.org)





# VOLUNTEER & CITIZEN SCIENCE

## SHARON TATEM (FWC)



# FWC: About

- Conservation Areas
- Volunteer Programs
- Group Volunteers





# FWC: Examples

- Citizen Science
- Invasive Removal/Native Planting Workdays
- Derelict Trap Removal Program
- Monofilament Recycling

**Cast Your Used Fishing Line Here**

**We Recycle  
Monofilament**



**Artwork generously donated by Guy Harvey  
in support of the  
Monofilament Recovery and Recycling Program  
and participating businesses like this one.**



# FWC: Get Started

1. Visit the website
2. Contact Reg'l. Coordinator
3. Identify site needs



# FWC: Questions

## Sharon Tatem

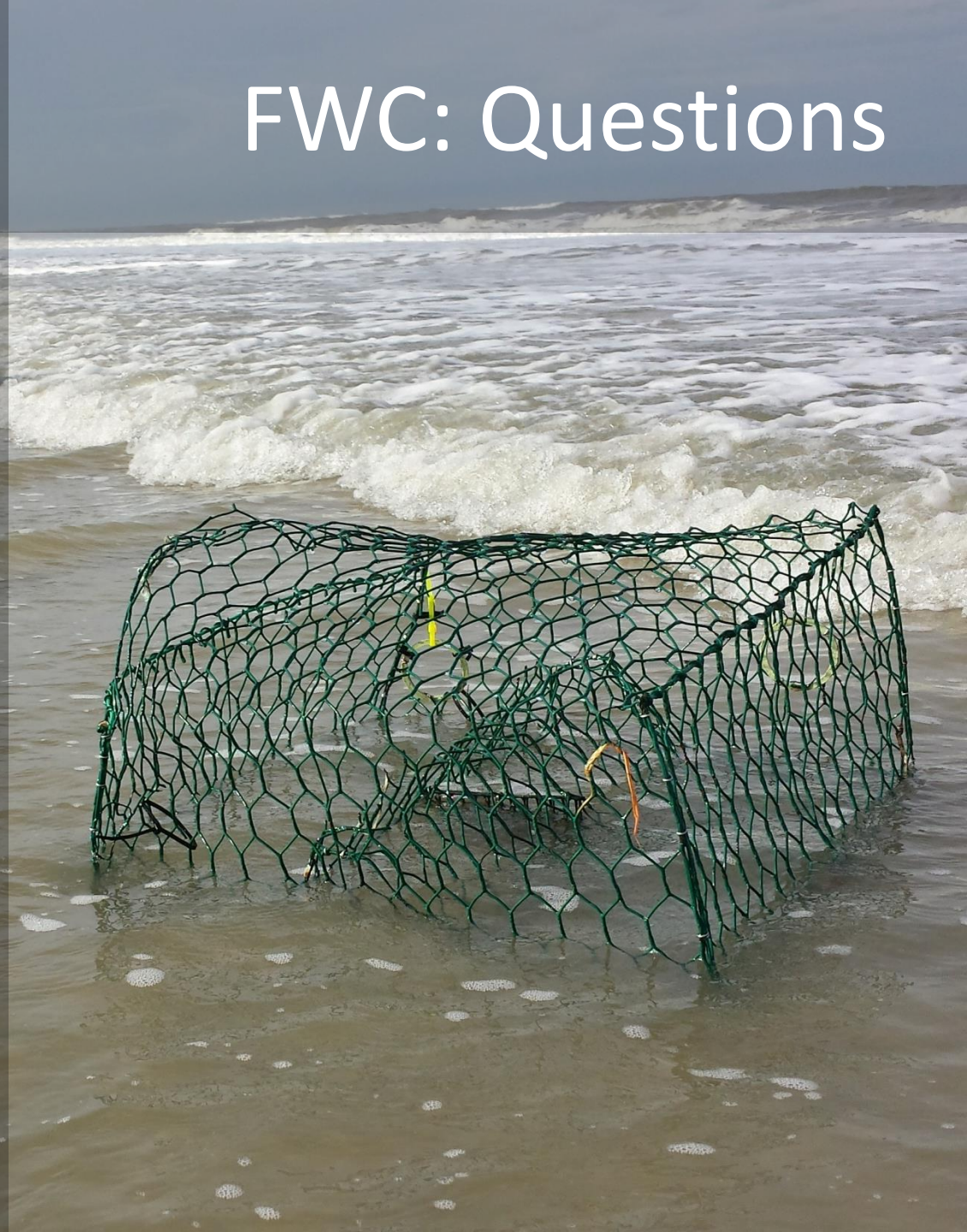
FWC Volunteer Program Manager

[Sharon.Tatem@MyFWC.com](mailto:Sharon.Tatem@MyFWC.com)

Tallahassee (850) 921-1047

## Region Volunteer Coordinators:

- **Jess Rodriguez** – Northeast  
[Jess.Rodriguez@MyFWC.com](mailto:Jess.Rodriguez@MyFWC.com)  
Ocala (352) 732-1225
- **Brendan O'Connor** – Southwest  
[Brendan.OConnor@MyFWC.com](mailto:Brendan.OConnor@MyFWC.com)  
Lakeland (863) 648-3829
- **Ashley Taylor** – South  
[Ashley.Taylor@MyFWC.com](mailto:Ashley.Taylor@MyFWC.com)  
West Palm (561) 882-5716





# GREEN SCHOOL INITIATIVES: DON WHITEHEAD FL DOE

# Green Schools: About

- Partners
- Awards
  - Local: Palm Beach
  - State: FGSA
  - Nat'l: Green Ribbon
- Resources
  - Website
  - Technical Support



**GREENSCHOOLS**  
RECOGNITION PROGRAM



FLORIDA  
GREEN SCHOOL NETWORK

U.S. DEPARTMENT OF EDUCATION

**GreenRibbonSchools**

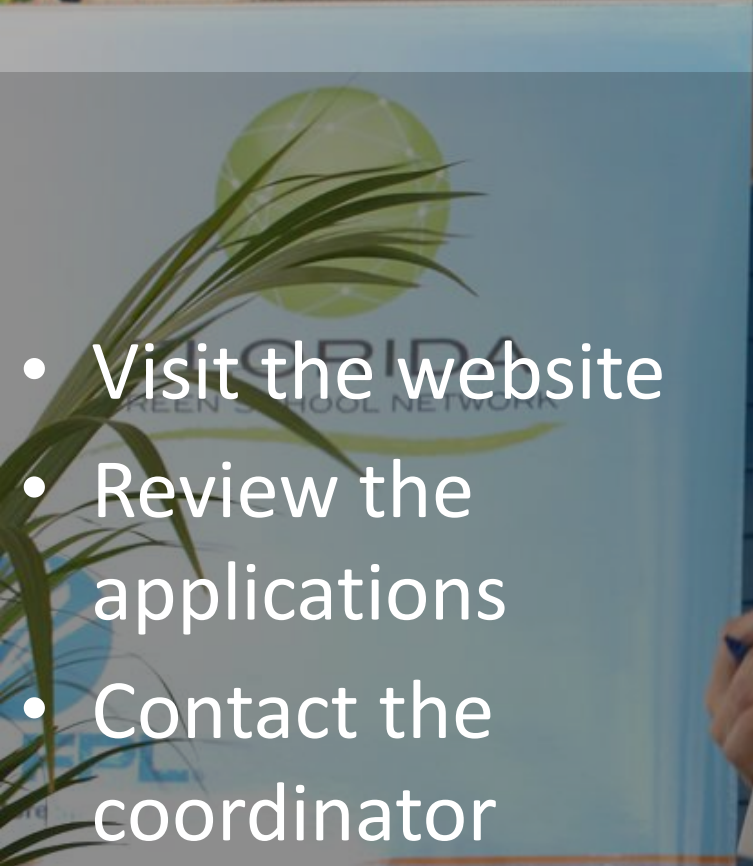
# Green Schools: Examples

- Service Projects
- Schoolyard Improvements
- Healthy Schools



# Green Schools: Get-Started

- Visit the website
- Review the applications
- Contact the coordinator
- Reach out to local schools



# Green Schools: Questions

A group of approximately 15 women are gathered outdoors on a paved area, possibly a school courtyard. They are looking at architectural drawings and materials laid out on a table. One woman in the foreground is holding a small green object. The background shows palm trees and a building under a clear sky.

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*“How can we build on our unique strengths, local experience, and shared interests to reach our common goal?”*

Greg Ira  
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**MOVING FORWARD:  
GREG IRA**



Thank you for joining.



Keep Florida **Beautiful**

KEEP AMERICA BEAUTIFUL AFFILIATE