

# Interactive Web Approach to Environmental Education

Utilizing online games, videos and curriculum-aligned classroom activities



**Theresa Mandery, Recycling Specialist**

OCRRA, Syracuse, NY

May 5, 2015

# Why a Web Approach?

- Teacher feedback
- Student interest
- Accessibility
- Digital Age
- More presentations
- Tool kit



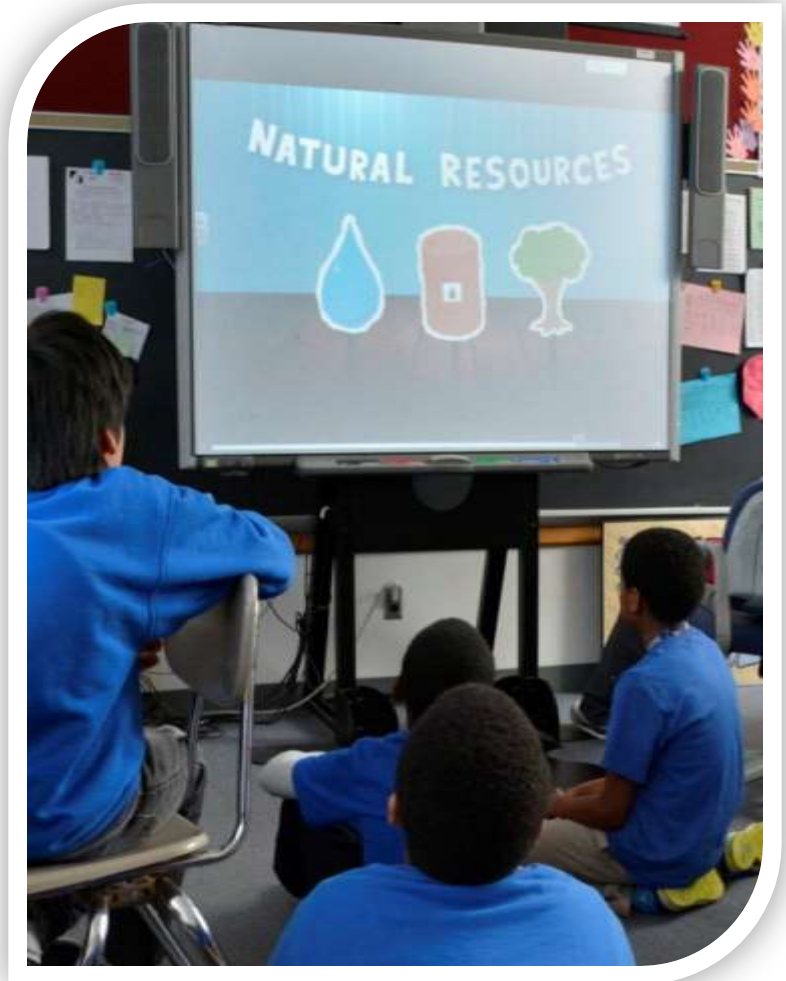
# Convenience

- Internet access
- Standalone or in class
- Can be utilized on:
  - ✓ *Individual computers*
  - ✓ *Tablets*
  - ✓ *Mobile devices*
  - ✓ *“Smart” boards*



# Content

- Recycling,
- Waste Reduction,
- Composting,
- Waste-to-Energy, and
- Other ways to “save the world a little each day.”



# Curriculum

- NYS Curriculum requirements
- Standards for 3<sup>rd</sup> – 5<sup>th</sup> grade
- Example:
  - ✓ *CCSS ELA RI 3.1, 4.1, 5.1*



New York State  
Education Department



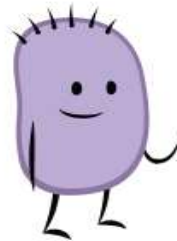
**COMMON CORE**  
STATE STANDARDS INITIATIVE  
PREPARING AMERICA'S STUDENTS FOR COLLEGE & CAREER

engage<sup>ny</sup>

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## Environmental Education

Help your students have fun while they learn to protect the environment! Check out our educational videos and games that teach students about:

- recycling,
- waste reduction,
- composting,
- waste-to-energy and
- other ways we can all work together to help save the world a little each day.

Not only are these videos and games fun, their content addresses **NYS Curriculum requirements** that are aimed at third through fifth graders. (Specific curriculum topics are noted in the Classroom Activity sections\*.) This makes incorporating these entertaining videos into your lesson plans a snap.

\*Activities include curriculum specific worksheets as well as pre- and post-tests that assess student knowledge before and after viewing the video lessons.

[Overview](#)[Composting](#)[Recycling](#)[Reduction](#)[Trash](#)[Bonus](#)

### Overview

#### Video



Wonder what OCRRA is and how we operate here in Onondaga County? This video:

- Provides an overview of the

#### Game - Sort it Out!



Do you know the difference between trash, recycling and composting? This educational sorting game will help teach you what belongs where!

#### Classroom Activities

Curriculum addressed:

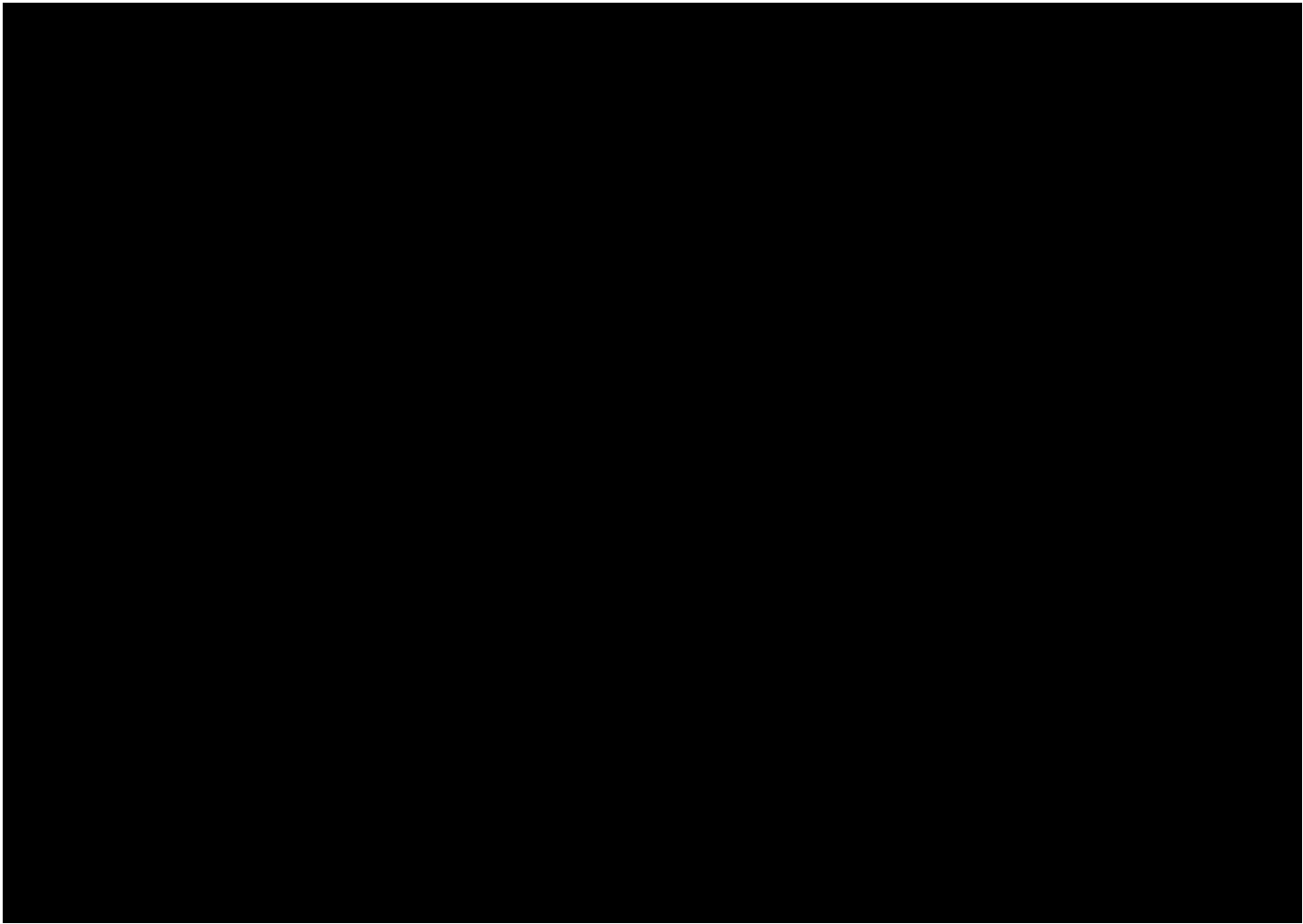
- CCSS ELA RI 3.7, 4.7, 5.7
- CCSS ELA RI 3.1, 4.1, 5.1
- CCSS ELA RI 3.4, 4.4, 5.4
- NYS Science Standard 4: Living Environment

[View Activities](#)

# Professionally Produced Videos



Huge thanks to the team at Pinckney Hugo Group!  
(Syracuse-based advertising agency)





# Interactive Game: Sort it out



# Classroom Activities

## Overview: Context Clues

Electricity can be created in lots of ways, by burning coal or natural gas for example. By using trash instead we save these natural resources at the same time we are getting rid of trash.

In this passage *natural resource* refers to

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Through composting, we can work together to turn leaves, grass, apples cores, half eaten sandwiches, leftovers and yard trimmings into something that helps the environment.

Composting uses only *organic materials* in its process. From the passage, what are three organic materials that can be used to compost?

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## Word Search



# Teacher Feedback

- “The website looks amazing!”
- “The students really enjoyed the videos and games. Both were a huge topic of conversation after the presentation.”
- “The videos were great! They were appropriate and informative for our kids and a good blend of real footage with other pictures, diagrams, etc.”

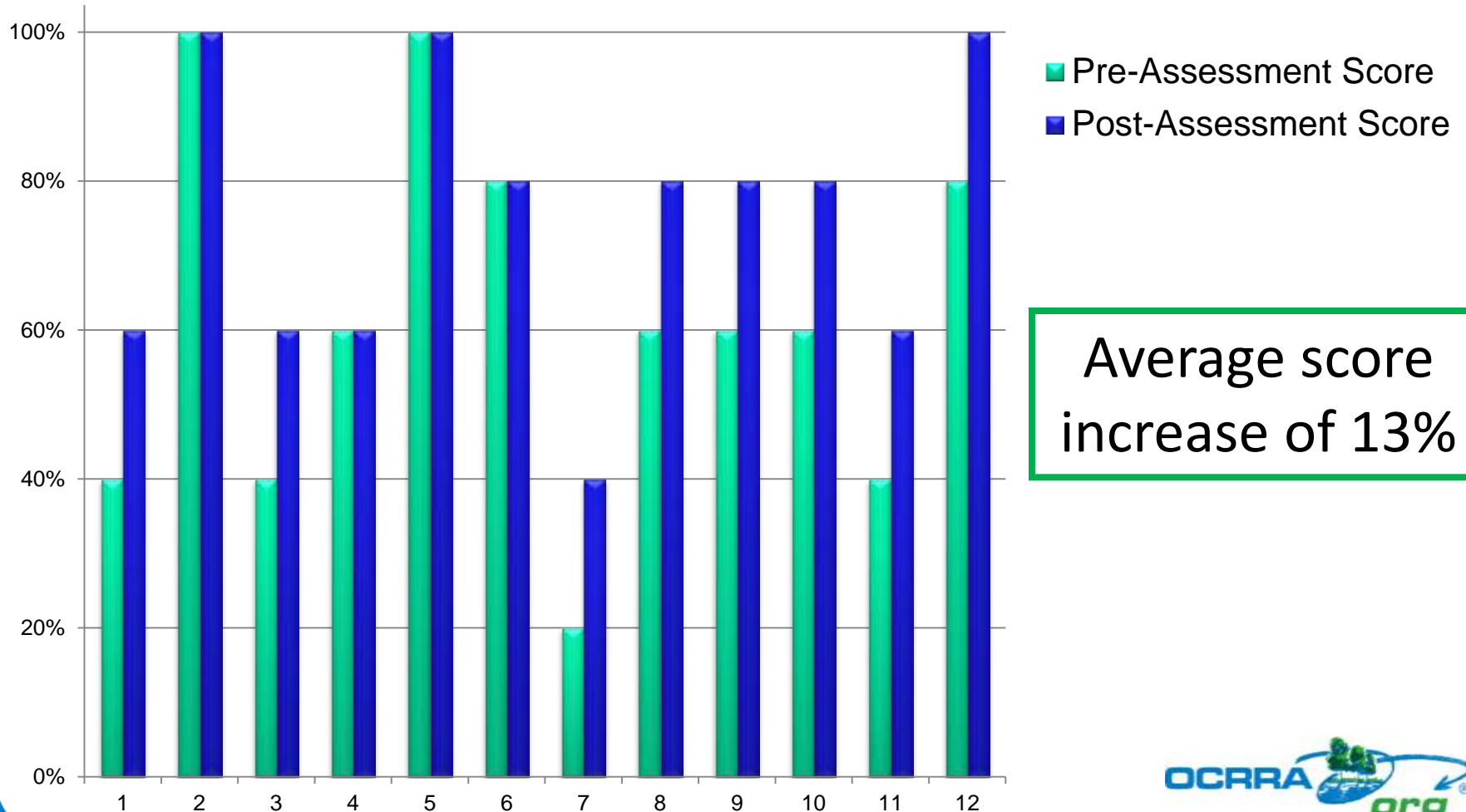
# Student Feedback

- “I liked when the video talked about the Carrier Dome. That is A LOT of recycling!”  
– Kayla, 5<sup>th</sup> grade
- “The games are a fun way to help the environment.”  
– Makenzye, 5<sup>th</sup> grade
- “I’m going to play the worm game more at home.”  
– Cameron, 5<sup>th</sup> grade



# Metrics

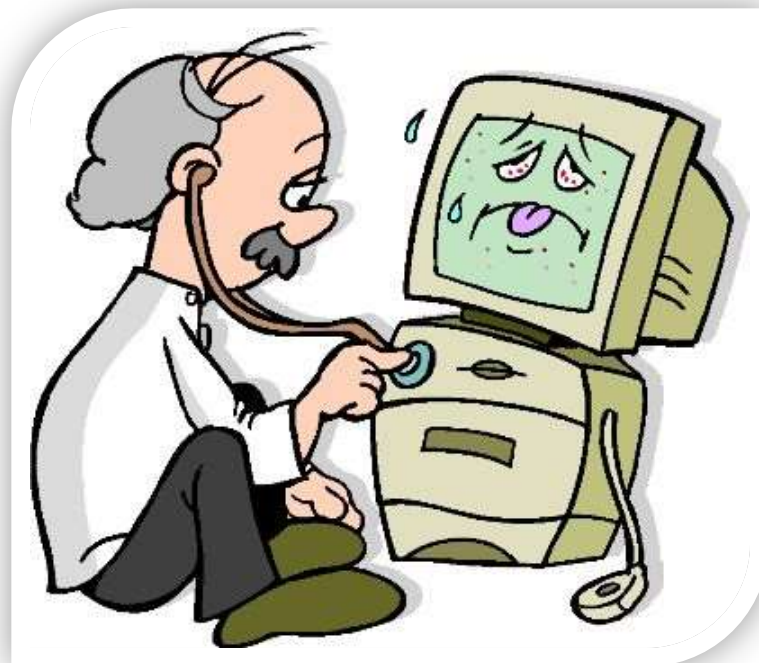
Nate Perry Elementary School (in Liverpool, NY)  
5th Grade Students Pre & Post Test Scores



Average score  
increase of 13%

# Challenges

- Introducing new program to teachers with already full plates
- Varied school technology capabilities
- Potential web filtering and/or blocking



# Next Steps

- Outreach
- Expanding curriculum to extend beyond 3<sup>rd</sup> – 5<sup>th</sup> grade
- Increasing volume of classroom activities



**Check it out yourself!**

[www.ocrra.org/educational\\_resources](http://www.ocrra.org/educational_resources)



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[tmandery@ocrra.org](mailto:tmandery@ocrra.org)

(315) 453-2866

[www.OCRRA.org](http://www.OCRRA.org)

