

## **OYSTER RESTORATION PROGRAM**







## **OPERATION OYSTER**

Cross Curricular Programming

**FORRESTDALE SCHOOL** 

October 2017



7<sup>th</sup> graders start with a program overview.

### **RESTORATION - EDUCATION - ADVOCACY**

#### **BELIEFS**

Healthy, Clean Water is Important

Nature Provides Solutions Both Globally, and Locally

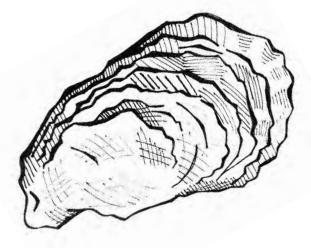
Everyone Has a Stake in a Healthy Marine Environment

You Can Make a Difference

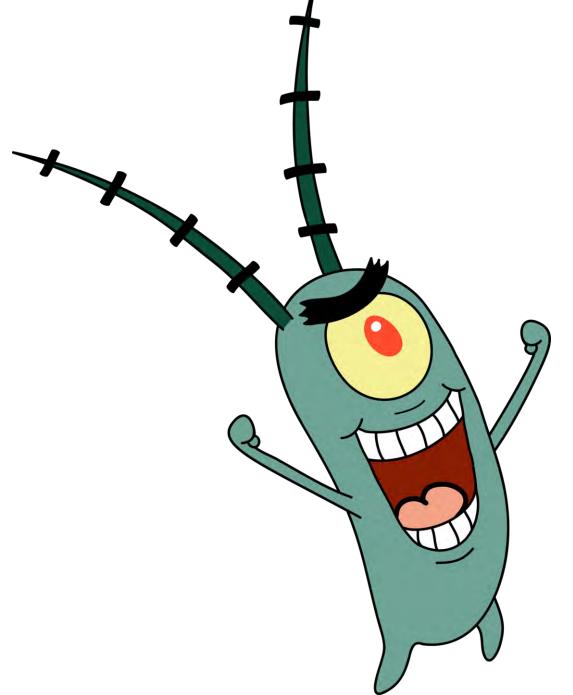


Followed by information about the Littoral Society's **Operation Oyster** program.

## Then students split into breakout sessions. Their teachers traveled with them throughout the day to share their



### experiences.



SCIENCE CLASS Ecology, Human Use, Water Quality

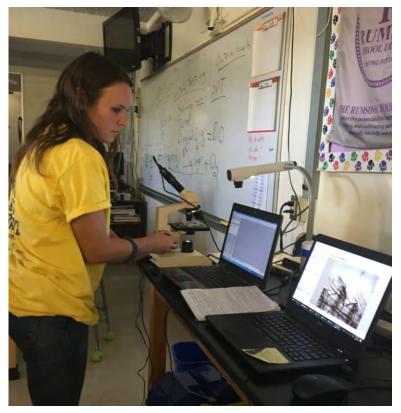
Why is the water is polluted? About plankton Refractometer: salinity in 3 water samples (river, bay, ocean) YSI: test water quality

Jeff Dement, Fish Tagging Program Director Lindsay Weil, Education Director



#### Who's eating who out there?





Students view live plankton samples.

Students use a refractometer to measure the salinity of 3 water samples: river, ocean, bay.







Students use YSI for water quality testing

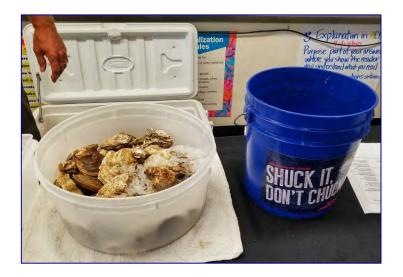






#### Water PH station.

#### ENGLISH/LANGUAGE ARTS 1 CLASS Oyster Examination, Tasting and Poetry



Doug Douty, Trustee and Owner, Lusty Lobster Sean Douty, Lusty Lobster Colleen Doogan, Education Director, PROJECT WRITE NOW Lisa Hartsgrove, Educator, PROJECT WRITE NOW



POUG DOUTY THE LUSTY LOBSTER TRUSTEE, AMERICAN

Read

OYSTER RESTORATION PROGRAM

LIVE M

Shuck It, Don't Chuck It Why recycle shell?



## Understanding the oyster.



Yes, we are going to eat one.





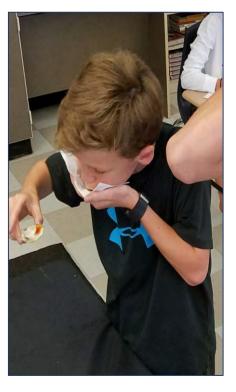
















#### The superintendent tries one...

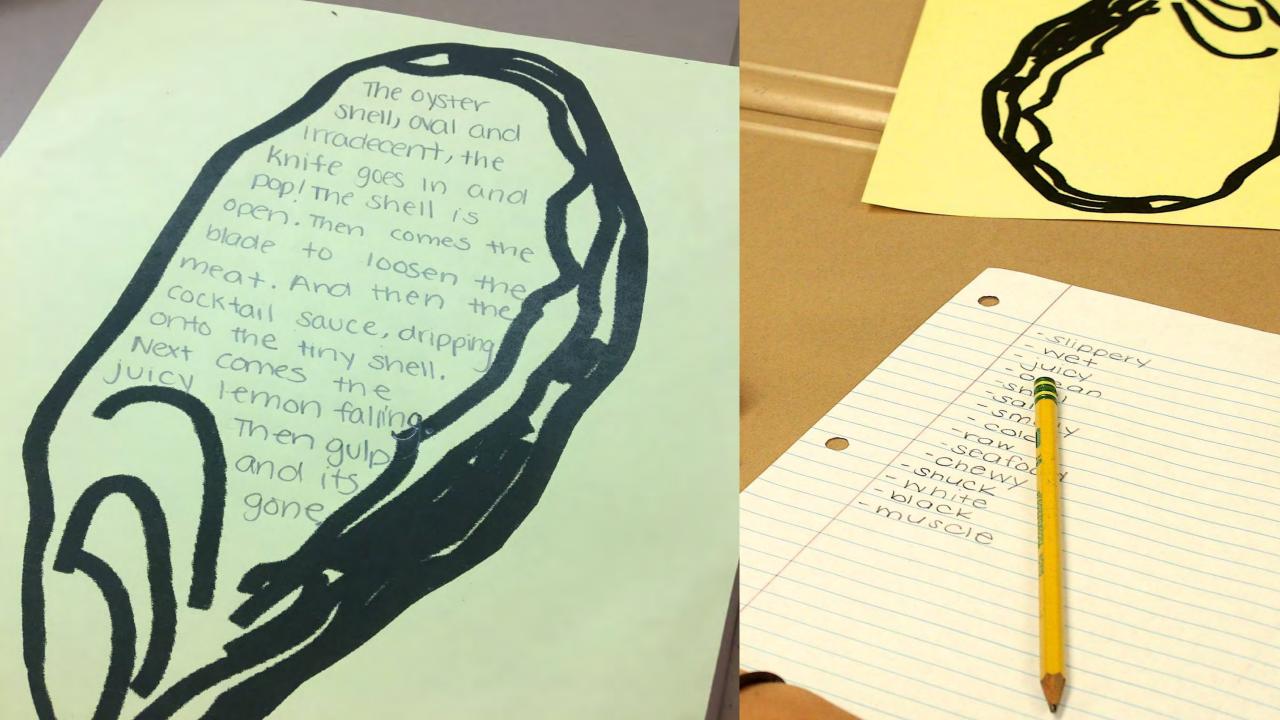
#### and others follow suit.





Even 7<sup>th</sup> grade teacher Ms. Stahl built up enough courage to try her first oyster, to the delight of her students.





**ENGLISH/LANGUAGE ARTS 2 CLASS Environmental Advocacy and Policy** 

> Laws and Victories Shaping Policy Persuasive Letter Writing



Tim Dillingham, Executive Director, American Littoral Society

How laws are made - victories through the decades.







Students write their own letter to ask for support for shell recycling, or clean water initiatives.

Why important to you?

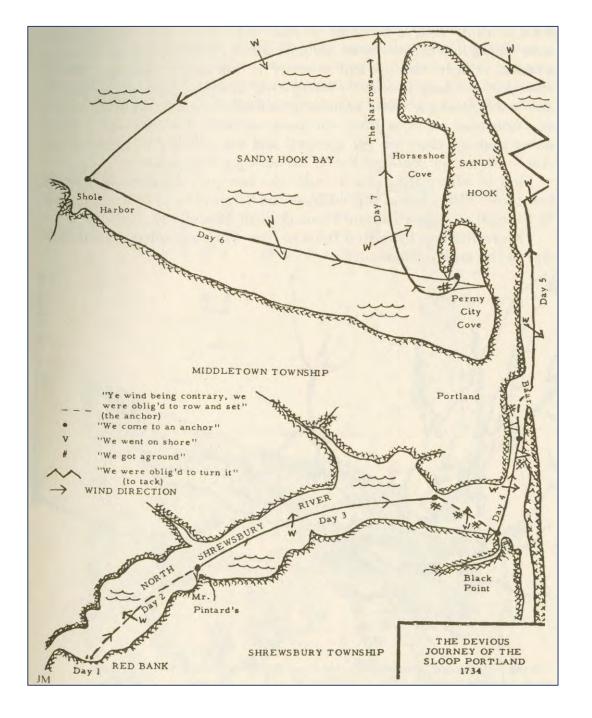
The issue

Ask for action

Always provide an idea or solution

How to do it?

Ask again



#### **SOCIAL STUDIES CLASS History of the Two Rivers**

#### History on the Half Shell North and South Shrewsbury Rivers

Pati Githens, Education Coordinator, Monmouth County Historical Association



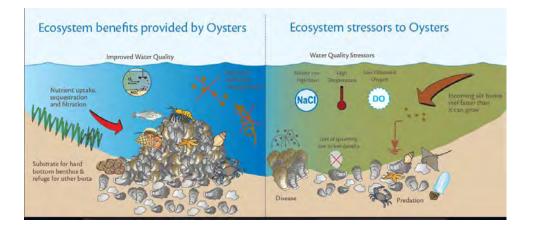
An oyster rake and other artifacts are examined.



It took 13 days for a boat to travel from Red Bank to **New York** and back to deliver oysters.

#### MATH 1 CLASS Oysters as Ecosystem Engineers

#### Oyster Reef Engineering Living Shorelines



Kathleen Gasienica, President of the Board, American Littoral Society Captain Alek Modjeski, Habitat Restoration Director Using stream tables demonstrates the effectiveness and purpose of oyster reefs and living shorelines.

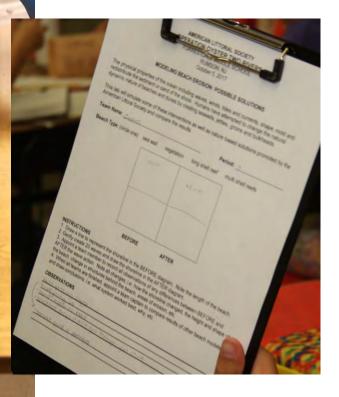








Students record observations and draw conclusions about what works best.









#### MATH 2 CLASS Math Matters

Why math matters in our work!

Data collection - Statistics vs Data Analytics , Presence vs. Abundance, Sampling vs. Surveying

Analyzing Shell Bag Data: graphing and charting, biotic indicators, rating the health of the overall watershed

Julie Schumacher, Habitat Restoration Technician Zack Royle, Habitat Restoration Technician





Students learn about oyster shell bags and the importance of collecting and analyzing the data gathered during monitoring.





They also learn about what they might find in one of our shell bags, aside from oysters!





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This program was made possible through a generous grant from

# The Stone Foundation of New Jersey

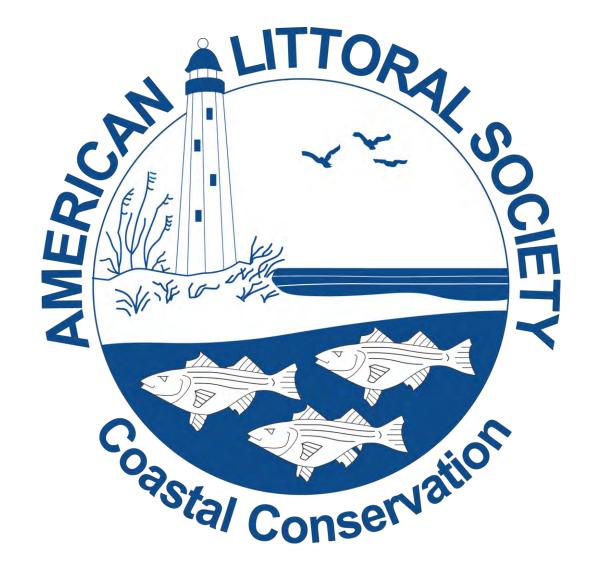
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