



## **OYSTER UNIT**

### **LESSON PLAN 3<sup>rd</sup>-5<sup>th</sup> grade**

#### Topics

What is a mollusk?  
Oyster anatomy  
Oyster reefs  
Threats to the eastern oyster  
Bioremediation

#### Objectives

Students will be able to:

- Explain what a mollusk is and their general features
- Describe how the oyster uses it's anatomy to eat and gain oxygen
- Explain the importance of the oyster shell in protecting the oyster
- Explain the role of oysters in the Long Island Sound
- Describe an oyster reef and its importance to oysters
- Identify threats to oysters and their habitat

#### Instructional Materials

Topic Video  
Vocabulary Flash Cards

#### Assessment Materials

Video Reflection Worksheet  
Video Quiz  
Make Your Own Mollusk Worksheet (students create bivalves with materials at home)  
Oyster Anatomy Worksheet (*PDF of answers available*)  
My Life on an Oyster Reef Worksheet (students create a story)  
Oyster Threats Worksheet  
Make Your Own Filter Worksheet (students create their own filter at home)

#### Related Materials

Book: How Oysters Saved the Bay – Jeff Dombek

Links to videos and reading material that provides additional information on topics.

#### *NOAA Resources*

The National Oceanic and Atmospheric Administration (NOAA) is a partner of SoundWaters. These are additional resources you may use in addition to the other materials included above.



### *Oyster unit K-5 materials*

<https://aamboceanservice.blob.core.windows.net/oceanservice-prod/education/oysters-in-the-chesapeake-bay/elementary/es-unit-intro.pdf>

<https://oceanservice.noaa.gov/education/oysters-in-the-chesapeake-bay/elementary.html>

### *The great oyster mystery*

<https://www.yumpu.com/en/document/read/52472613/the-great-oyster-mystery-teacher-guide-estuaries-noaa>

### *Oyster reefs*

[https://www.youtube.com/watch?v=mY1DQie\\_MTY](https://www.youtube.com/watch?v=mY1DQie_MTY)

<https://www.fisheries.noaa.gov/national/habitat-conservation/oyster-reef-habitat>

[https://oceanservice.noaa.gov/education/tutorial\\_estuaries/media/supp\\_est07c.html](https://oceanservice.noaa.gov/education/tutorial_estuaries/media/supp_est07c.html)

<https://coast.noaa.gov/data/estuaries/pdf/an-ode-to-the-oyster-oyster-reefs-powerpoint.pdf>

### *Oyster life cycle & anatomy*

<https://oceanservice.noaa.gov/facts/spat.html>

<https://aamboceanservice.blob.core.windows.net/oceanservice-prod/education/oysters-in-the-chesapeake-bay/elementary/es-grade4.pdf>

### NGSS Standards

Ecosystems: 3-LS2-1

Interdependent Relationships in Ecosystems: 3-LS4-3; 3-LS4-4

Structure, Function, and Information Processing: 4-LS1-1

Earth and Human Activity: 5-ESS3-1

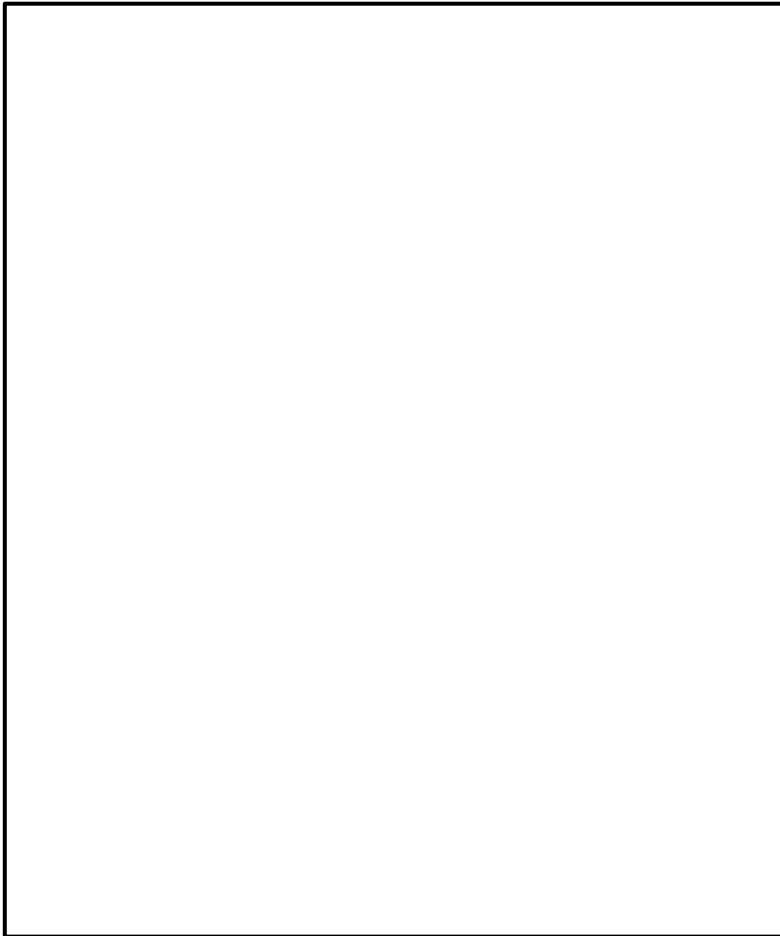
Ecosystems: 5-LS2-1

Earth and Human Activity: 5-ESS3

In the video, we looked at the anatomy of the oyster. Label it below:

## EXTERNAL ANATOMY:

Sketch the outside of the oyster in the video and label the following: *Umbo*, *growth ring*, *Shell*



## INTERNAL ANATOMY:

Label the anatomy of the oyster below: *Mantle*, *Gills*, *Heart*, *Adductor Muscle*, *Stomach*

