

LESSON 3

The following questions were asked as a review of Lesson 2. If students did not respond to the hypothesis during Lesson 2, have them do so using the worksheet, "Response to Hypothesis". Please make sure to return copies of students' responses to DEI.

- Why is the clam industry important to us?

The harvesting and consumption of soft shell clams, *Mya arenaria*, have been important to our area since Native Americans lived here in the summers many years ago. Over the years, we realized that selling clams could be a financial resource for our area, and we expanded the industry to include that aspect.

- How can the DEI Clam project help this industry?

Over the years, the clam industry provides a lucrative income for many local people and we have the chance to help the industry grow and thrive through the DEI Clam project.

Key Questions (Lesson 2 and Lesson 3 cover many of the same questions)

- Where will we travel to place the clams once we have finished preparing them?

We will travel to a section of mud flats in the community that we have asked the town officials about using for our project

- Why will we put clam containers at upper, middle, and low tidal zones?

We want to find out if there is a difference between how fast clams grow in one area or the other, and we want to find out if they survive in one area over the other.

- What will we cover the clam containers with to protect the clams from predators?

We will put mesh netting over some of the containers to protect them from predators.

- Why will we leave some containers of clams unprotected?

We want to find out if the protective netting makes a higher survival rate

- Why do we need to keep track of where we put each clam container?

We will keep track of each container, so that we can tell what area showed a better growth rate and what area showed a better survival rate.

- Why will we use plastic containers instead of the type we could make out of newspaper?

The containers will be exposed to weathering and water for several months. A newspaper container would not survive for that long and we could not tell what happened to the clams that were placed in it.

➤ What do you think will happen to the clam containers? Why?

Accept various responses for this question. Some will think that the containers will be there in the fall; others will think they will be gone. Why? Some will think the containers will be destroyed by weathering and water or predators in the area (human or animal); some will think clams will grow, others will think they will die

➤ What do you predict will happen to the clams that are planted in protected and unprotected plastic containers at the upper, middle, and lower intertidal?

This section is meant to be their predictions to the hypothesis. The Instructor may have students respond to this questions on the worksheet that is provided for Lesson 2 or Lesson 3. Their predictions should be written down to be given to DEI (Instructors may submit copies of the student work instead of the originals)

What discoveries, if any, did we make at the upper, middle, and lower tidal zones?

Journal Entry - Students may add their responses here about their trip to the tidal flat. Many students have never been in this habitat. Allow them to discuss what it was like to walk in the mud. Allow them to explain how the containers were placed and marked. Have them recall their trip as an oral group discussion or a journal entry. They may talk about things they experienced with their senses. What did they see? Hear? Taste? Touch? Smell?