

ACTIVITY 2: READ ABOUT GREEN MARINE

This activity aims to provide students a better understanding of just what is involved in the measures being taken to achieve sustainable shipping practices.

They will read more about the voluntary efforts that Burns Harbor is involved with through the independent certification organization Green Marine.

In this activity, students will use a **Think Pair Square Protocol** for discussing the article that they will read individually.

First, distribute the article entitled "[Green Marine: Are voluntary efforts enough to improve port sustainability?](#)" by Kari Lydersen from *Great Lakes Now*, giving students time individually to read the article, and ask them to jot down 3 things they learned in the article.

Then, have students pair up with a partner to discuss the article and which 3 points they noted from it.

Next, have two student pairs join up, standing near each other to form the four corners of a square, to discuss the article and what they talked about in their pairs.

Last, have each group come up with a summary statement about the most important point from their discussion and ask for a volunteer in each group to share that most important point with the whole group.

As student groups share out their most important point, record their ideas on the board and have students copy the list of student ideas down into their notebooks.

Inform them that they will be using some of the information from this article and discussion in a later activity to evaluate solutions to pollution.

After the shareout is complete, ask students to return to their groups and discuss one last question based on the article:

How does Green Marine utilize mathematical modeling?

After giving the groups some time to discuss this question, open up the conversation to the entire class to discuss the ways that Green Marine might gauge participation and success with various efforts using models.

Further Reading on the Subject:

*Three other additional articles on sustainable shipping are available in this same series by Kari Lydersen from Great Lakes Now. They [are linked at the episode 1031 landing page here](#) and can be used as further research sources, or an extension activity, for students to read and discuss with one another, again, using the **Think Pair Square Protocol**.*

Teaching Tip: Use the Student Handouts to help students organize their thinking in writing around each of the lesson protocols.