

Malama Wai Ola Program

Fishing For a Living Grades 6-12

- Students will be given a pretest and a posttest
- The homework will also be used as a posttest.
- No more than 20 students may participate
- Lesson's one and two are combined into one classroom visit
- NOTE: This lesson should follow a lesson on food webs and ecosystems.

Lesson One: A Power point introduction to the Malama Wai Ola Program and the instructors. An introduction to the concept of the 'tragedy of the commons.' Examples of this concept will be shared so that the students are able to gain an understanding of the consequences of mismanagement.

Lesson Two: A fishing game will be played in small groups of four students. A set of rules will be given to each team and then they will be told to fish. Fishing is their way of economic survival and they must create fishing strategies so that they can survive. After the game, a short discussion will be conducted to see what happened. Who was successful in keeping a balanced ocean and sustainable fishery? Discuss some strategies that worked and didn't work.

After the lesson the students will be asked to decide what type of information they would like to collect about tidepools and tidepool creatures, (i.e. if they would like to focus on a certain species or if they would like to collect general information on abundance in the area). Once they decide what questions they would like they will design a data sheet to collect the information and turn it in to the instructors who will check it and print in out on weather proof paper.

Hualalai Site Visit

Based on the tides and the abilities of the class we will lay an intertidal belt transect line. Before setting the lines there will be a short introduction to what a belt transect is and how it is used. During the introduction the students will separate into groups and the instructor will do a short talk and possibly an activity then we will set out our lines and collect the data.

Homework: The students will take home the data they collect from the belt transects and create a graph. Using the graph they will analyze the information and write a short paragraph about it. They will also write a paragraph on why it is important to monitor and manage our resources.

Hawaii Content & Performance Standards III

The standards bellow are the benchmarks that this lesson will hit within HCPS III

Sixth Grade

- SC.6.1.1
- SC.6.1.2
- SC.6.2.1
- SC.6.2.2

Seventh Grade

- SC.7.1.1
- SC.7.1.2
- SC.7.1.3
- SC.7.3.2
- SC.7.3.3

Eighth Grade

- SC.8.1.1
 - SC.8.1.2
 - SC.8.2.1
 - SC.8.5.1
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- No benchmarks for grades nine and above