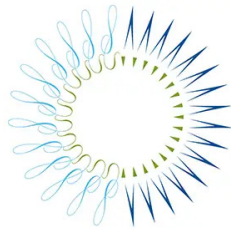




DEADLIEST CATCH

This lesson plan developed by:



THE
PEW
CHARITABLE TRUSTS

Overview:

While many countries have laws regulating fisheries, there are no international governing bodies to enforce those laws. Too often the seas are viewed as a place ripe for the taking. The rate of exploitation of marine resources far exceeds the extraction of animal resources on land. This lesson provides a variety of activities that will help students understand the complexities of global fisheries. This hands-on fishing activity will help students learn about the effects of advancing technology on fishing stocks.



Materials:

- Plain and peanut m&m's (Smarties and Swedish fish for peanut allergies)
- 1 reusable straw
- 2 bowls
- 1 spoon
- Pen/pencil and handout for each student

Duration:

1 hour

Deadliest Catch (cont.)

Physical Activity:

Moderate

Activity:

Give each student a bowl with 20 plain and 10 peanut m&m's, an empty bowl, a reusable straw and a spoon. Explain that the plain m&m's represent smaller less profitable fish and the peanut m&m's represent larger fish that bring in more money. For each round, they get 1 minute to fish as many fish as they can with the tools provided.

Round 1: Using the straw, students try to suck as many fish as possible out of the bowl. The students need to keep their hands behind their backs during the first round. This simulates low technology, smaller catch fishing practices. Students need to record their catch on the handout. The fish left in the bowl represent fish not caught that can live to reproduce. After the first round, double the number of plain and peanut m&m's in each student's bowl.

Round 2: Repeat, but this time students can hold the straw in their hands. During this round, the added assistance with the straws represents advancements in fishing technology and increased catch. Record numbers and double remaining population at the end of the round.

Round 3: Give a few students spoons. These spoons represent long lines or other technologies that allow for large exploitive fisheries. Let those students know that they can move on to other student's bowls once they've wiped out their own fisheries.

Processing Data: Once students have completed the 3 rounds, the students need to analyze the results. Have students record their answers on the worksheet and discuss the questions below.

Fishing Activity

Name _____ Date _____

Round	Number plain m&m	Number peanut m&m	Ratio plain/peanut
Beginning	20	10	2:1
1			
2			
3			

Deadliest Catch (cont.)

Discussion:

As a whole group, start a discussion about the activity with the following questions:

- What happened to the overall population of fish as the technology advanced?
- Where there differences in how many plain and peanut m&m's were taken out?
- What effect can this have on the overall ecosystem?
- How would you devise a plan to allow people to fish and to do so sustainably?
- Does this activity remind you of anything?

Ocean Literacy Principles:

Ocean literacy is an understanding of the ocean's influence on us, and our impact on the ocean. There are seven [Ocean Literacy Essential Principles](#) that all people of our blue planet should have an opportunity to learn and understand. This activity touches upon the following Essential Principles:

5. The ocean supports a great diversity of life and ecosystems
6. The ocean and humans are inextricably interconnected
7. The ocean is largely unexplored

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