

Lesson Plan Template

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Course: Aquaculture Science: **Going Global**

I. Goal(s):

To increase the student's understanding of global food needs of humans and production of that food.

II. Objective(s): The student will

Be able to describe the importance of aquaculture as a source for protein intake by humans globally. ACOS: Aquascience 4, 7, 11, 12, 14, and 15.

Alabama Course of Study Objectives National Science Education Standards

III. Materials and Technology:

Kidney beans
Internet access

IV. Safety Precautions:

None (student should be knowledgeable of evaluating internet resources)

V. Lesson Procedures: *[Not all phases of the Learning Cycle are often present in one 50-min. lesson]*

A. Opening (15 minutes) – ENGAGE PHASE

Give each student a number from 1-3 as they enter class.

- All "1's" should receive 10 beans
- All "2's" should receive 5 beans
- All "3's" should receive 1 bean

The "1's" represent a person in a developed country with more than the required daily nutrients. The "2's" represent a person in a developed country with the required daily nutrients. The "3's" represent a person in a developing country with less than the required daily nutrients.

Encourage discussion about food distribution worldwide, the growing global population, and hunger.

B. Activity (15 minutes) – EXPLORE PHASE

Instruct the students to pair up and research aquaculture as a source for nutrients (can provide each team with a different topic to research to avoid overlap, i.e., required nutrients, aquaculture production, overfishing of our oceans, etc.)

The students should present their findings to the class.

C. Directed Teaching (**15 minutes**) – EXPLAIN PHASE

Compile the students' information in an organized fashion for notes.

D. Closing (**10 minutes**) – ELABORATION PHASE

Ask the students to research the drawbacks of aquaculture to compare and contrast advantages and disadvantages.

VI. Additional:

Have students create a poster or Powerpoint presentation of their materials.

Invite a guest speaker to incorporate career info.

VII. Evaluation:

Grade students on their participation in discussion or presentations.

VIII. Assignment:

Type or write a 1 page comparison of advantages and disadvantages of aquaculture.