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.