

Go Fish!

Developed/Adapted By

Steven Zollinger (steve.zollinger@snow.edu) Snow College

One sentence description of the assignment or activity

Using beans as fish, the students learn to approximate fish populations by tagging and sampling.

Course for which this is used

- PreAlgebra (Math 0950)
- Beginning Algebra (Math 0990)
- Intermediate Algebra (Math 1010)
- College Algebra (Math 1050)

Key topics taught in this activity

Averages, percents, proportions, probability, relations

Prerequisites

Basic arithmetic

Lesson Plan – Detailed Description

Break the students up into small groups of two or three. Then provide each group with a bag of beans (color 1). Each group will then proceed to count out a number of fish (beans) to tag. 50-100 fish to tag is adequate. Then replace these fish with tagged fish (beans of color 2). After they mix up the fish, the students will begin to pull samples and complete the chart on their assignment sheet. Once the chart is completed, the students will proceed to complete the remainder of the assignment sheet based on their sampling data.

Activity Grading/Assessment

The students' understanding will be assessed from their completed assignment sheet. Participation and effort with their group may also be factored into their grade for the activity.

Class Time Required

50 minutes

Out-of-Class Time Required

10-20 minutes outside of class (or in a second class) may be required for groups to fully complete their assignment.

Materials Required

Beans (two colors representing regular fish and tagged fish)
Assignment sheet
Pencil

Supplemental Web Resources

http://education.nationalgeographic.com/education/activity/fish-tagging-and-monitoring/?ar_a=1

Attribution (If adapted from the work of another)

This assignment has been adapted from the *Go Fish!* activity developed by FCAT (<http://fcit.usf.edu/FCAT8m/fish1/default.htm>)