

## Hardy Weinberg Fishy Frequencies Lab Analysis Questions

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### Hardy Weinberg Fishy Frequencies Lab

Hardy-Weinberg Population Genetics Lab Procedure 1: Without Selection 1. Get a random population of 10 fish from the "ocean." 2. Count green and red fish and record in your chart; you can calculate frequencies later. 3. Eat 3 fish, chosen randomly, without looking at the plate of fish 4.

### Fishy Frequencies : A Hardy -Weinberg Population Genetics ...

The Fishy Frequencies Activity: HWB Lab The Hardy-Weinberg Principle states that allele frequencies in a population will remain fairly constant unless one or more economic factors cause those frequencies to change. The situation in which allele frequencies remain constant is called "genetic equilibrium". To measure allelic frequencies, five conditions are required to hold steady the

### The Fishy Frequencies Lab

The Hardy- Weinberg equation states that:  $p^2 + 2pq+q^2= 1$  (or 100%)  $p=$  the frequency of a dominant allele in a gene pool for a given trait.  $q=$  the frequency of a recessive allele in a gene pool for the same trait.  $p+q=1$  (or 100%) This means that the fraction of homozygous dominate (pp) individuals plus the fraction of heterozygous (pq) individuals plus the fraction of homozygous recessive (qq) individuals equals 1 (or 100% of the gene pool).

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### The Fishy Frequencies Lab09 - Biology: the Study of Life

View Lab Report - Lab #2\_ Hardy-Weinberg Equilibrium.pdf from SCIENCE NONE at Coral Academy of Science Las Vegas. Fishy Frequencies Introduction: Understanding natural selection can be confusing and

### Lab #2\_ Hardy-Weinberg Equilibrium.pdf - Fishy Frequencies ...

The Hardy-Weinberg principle requires five conditions for genetic equilibrium to be maintained in a population: 1. Very large population size (in small populations, genetic drift, which is chance fluctuation in the gene pool, can change the allele frequencies) 2.

### Name: Date: Hardy-Weinberg Equilibrium - "Goldfish Evolution"

The Hardy Weinberg Goldfish Lab is an edible, hands-on activity to help students understand the Hardy Weinberg Principle.

### Hardy Weinberg Goldfish Lab - ThoughtCo

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### local-brookings.k12.sd.us

I. Title- Fishy Frequencies II. Problem- to further understanding of natural selection and the role of genetic and gene frequencies in evolution, and how selection affects the hardy weinberg equilibrium. III. Background-

### Science Lab Report: Fishy Frequencies

Abstract--> In this lab of "fishing" out random goldfish, we looked at the allele frequencies in a population and how they can differ and change. This lab helped me understand the concept of the...

### Goldfish Lab - Daniel's AP Biology - Google Sites

Full Lab 14 - Fishy Frequencies Background = Natural Selection and Hardy-Weinberg Question = Use Hardy-Weinberg to make one Null Hypothesis = By now you should know how to do this, especially with this lab - it is so easy! No Research = YEAH! Procedure: In your ocean, there are two phenotypes of fish - gold and brown. Gold is recessive (ff) - these fish are yummy and easy to catch.

### Full Lab 14 - Fishy Frequencies - Full Lab 14 Fishy ...

The alleles being studied control the coloration of the fish. Fish can either be white, gold, or mottled. When all the conditions of Hardy Weinberg equilibrium are met, the p and q alleles exist at a .5 frequency each. Changing any of the five requirements, such as migrations and mutations will affect the allele frequencies. Student complete a worksheet that first asks them to read the background information on population genetics.

### Population Genetics Virtual Lab

F alleles must be 1, the frequency of your F allele must be .6 Using Hardy Weinberg, you can assume that in your population you have .36 FF (.6 x .6) and .48 Ff (.2 x .4 x .6) as well as the original .16 ff that you counted.

### AP Lab 8: Fishy Frequencies - andersonhealthscience.com

The same occurred with the alleles having a B allele frequency of .5 and Y a frequency of .5. Hardy-Weinberg Equation Test 1 In Test 1, there is a variable of having every other blue fish being removed to simulate natural predation of that phenotype color.

### Hardy-Weinberg Lab - Jeremy Boudah's AP Biology Lab Notebook

Model 1 – PopGen Fish Pond. This model is an agent-based population genetics simulation. The program contains the tools to conduct virtual experiments violating all the assumptions of Hardy-Weinberg theory (small population, selection, mutation, migration, and non-random mating).