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Hardy-Weinberg Equilibrium
Gizmo : Lesson Info ...
Set the initial percentages
of three types of parrots in

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a population and track changes in genotype and allele frequency through several generations. Analyze population data to develop an understanding of the Hardy-Weinberg equilibrium. Determine how initial allele

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percentages will affect the equilibrium state of the population.

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Answer: (i) Here frequency of all dominant phenotypes,

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$$(p^2 + 2pq) = 60\% = 60/100 = 0.6$$

then applying the Hardy -
Weinberg Equation, $p^2 + 2pq$
 $+ q^2 = 1$ here $p^2 + 2pq = 0.6$
then $q^2 = 1 - (p^2 + 2pq)$
 $q^2 = 1 - 0.6$ $q^2 = 0.4$ $q =$
square root of 0.4 $q = 0.63$
Frequency of resistance

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$$\text{allele } p = 1 - q \quad p = 1 - 0.63 \quad p = 0.37$$

Hardy-Weinberg Equilibrium
Gizmo : ExploreLearning
POPULATION GENETICS AND THE
HARDY-WEINBERG LAW ANSWERS
TO SAMPLE QUESTIONS Remember

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the basic formulas: $p^2 + 2pq + q^2 = 1$ and $p + q = 1$
 p = frequency of the dominant allele in the population
 q = frequency of the recessive allele in the population
 p^2 = percentage of homozygous dominant

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individuals q^2 = percentage
of homozygous recessive
individuals

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Hardy-Weinberg Practice

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Problems - ANSWER KEY 1. You have sampled a population in which you know that the percentage of the homozygous recessive genotype (aa) is 36%. Using that 36%, calculate the following: A. The frequency of the " aa "

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genotype (q^2). $q^2 = 0.36$ or
36% B. The frequency of the
"a" allele (q). $q = 0.6$ or
60 % C.

Topic 6: Evolution - 6d.
Hardy-Weinberg Lab
ANSWER KEY QUESTIONS TO

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**ANSWER WHILE WATCHING THE
FILM 1. Watch the short film
The Making of the Fittest:
... Using the Hardy-Weinberg
equation and data from the
table above, determine the
number of mice with the DD
and Dd genotypes on the**

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Pool

light, rocky, granite
substrate.

Hardy Weinberg equilibrium
Problems and Solutions ...

1. What does the Hardy-
Weinberg model show? 2. What
conditions are required for

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- a population to stay in Hardy-Weinberg equilibrium?
3. What can be predicted by the Hardy-Weinberg equation?
 4. What can be concluded if real population data do not match those predicted by the Hardy-Weinberg equation?
 - 5.

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Hardy-Weinberg Equilibrium
Hardy-Weinberg Equilibrium
Set the initial percentages
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a population and track
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several generations. Analyze population data to develop an understanding of the Hardy-Weinberg equilibrium.

POPULATION GENETICS AND THE HARDY-WEINBERG LAW

The Hardy-Weinberg principle

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states: The frequency of an allele in a population will remain constant from generation to generation. The frequency of an allele is equal to the # of that allele divided by the total # of all alleles in the

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population for that specific
gene.

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The Hardy-Weinberg equation is a tool biologists use to make predictions about a population and to show whether or not evolution is occurring in that population. 1. Describe the parents in each of the 12

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mating pairs in Model 1. Use terms such as homozygous, heterozygous, dominant, and recessive.

Hardy-Weinberg Equilibrium
Problems

hardy weinberg equation

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The Making of the Fittest:
LESSON Natural Selection and
...

Hardy Weinberg Problem Set p
 $p^2 + 2pq + q^2 = 1$ and $p + q = 1$
 $p =$ frequency of the

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dominant allele in the
population q = frequency of
the recessive allele in the
population

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(b) Is this population in
Hardy-Weinberg equilibrium?

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Justify your answer. Your explanation should include a chi-square goodness of fit test. $\chi^2 = 222.2$, $df = 60$, $p = 128.68$, 67.1 , 185 , 490 , 325 , oe , e , $?$, $?$, $?$
==+ += (with 2 degrees of freedom*) *The degrees of freedom equal $n - 1$, where n

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equals the number of genotypic classes, 3 in our case. The null hypothesis, H_0 , is that the population is in Hardy-Weinberg Equilibrium. In order to

Biology I - Chapter 13

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Flashcards | Quizlet

The Hardy-Weinberg law of genetic equilibrium provides a mathematical model for studying evolutionary changes in allelic frequency within a population.

Teaching Hardy-Weinberg in

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AP POGIL- The Hardy-Weinberg
Equation.pdf

How can the Hardy-Weinberg
equation test whether a
population is evolving? the
allele frequencies will not

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change unless one of five agents of micro evolution is at work a population is said to be in equilibrium meaning the allele frequencies remain constant from generation to generation in the absence of other

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AP Biology Hardy-Weinberg
Practice Problems ANSWER KEY
The Hardy-Weinberg equation
is a tool biologists use to
make predictions about a
population and to show

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whether or not evolution is
occurring in that
population. Model 1 –
Controlled (Selective)
Mating

Hardy Weinberg Problem Set
KEY – Springfield Public

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Schools

The Hardy-Weinberg principle states that frequencies of alleles and genotypes in a population remain constant from generation to generation In a given population where gametes

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contribute to the next
generation randomly, allele
frequencies will not change

www.oakparkusd.org

Hardy-Weinberg Equilibrium
is an ideal state that
provides a baseline against

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which scientists measure gene evolution in a given population. The Hardy-Weinberg equations can be used for any population; the population does not need to be in equilibrium.

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