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Hardy Weinberg College  
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# Lab 2 Mathematical Modeling Hardy Weinberg College Board

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Investigation 2 - Hardy-Weinberg  
modeling

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Lab 2 AP Bio Hardy Weinberg Math  
Modeling using Excel Part Investigation  
~~2: Hardy Weinberg lab~~ *AP Biology Lab  
Hardy Weinberg Model*

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AP Biology Lab 8: Population Genetics

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## Mathematical Modeling

and Evolution Weinberg College 101

Lecture 2 : Dimensional Analysis of  
Mathematical Models (part 1)

Mathematical Modeling: Lecture 1 --  
Difference Equations -- Part 1

Mathematical Modelling of Coronavirus  
spread

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Mathematical Modeling 2 KotlinConf 2018

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## Mathematical Modeling

~~Mathematical Modeling with Kotlin by  
Thomas Nield~~

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Double Slit Experiment explained! by Jim  
Al-Khalili *9 Math Riddles That'll Stump  
Even Your Smartest Friends* ~~MOVING~~  
~~TRIANGLES | maths working model easy~~  
~~to make~~ The Beauty of Mathematics  
Delayed Choice Quantum Eraser

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## Mathematical Modeling

### Explained Electronic structure and interactions in twisted bilayer graphene | Prof. Francisco Guinea

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The Map of Mathematics *The Hardy-Weinberg Principle: Watch your Ps and Qs* *HardyWeinbergExcelModelHowTo*  
*How to make a mathematical model*

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Exploration 2: Hardy Weinberg Lab:



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## Mathematical Modeling

counting zygotes and calculating new p  
and q *The Quantum Experiment that Broke  
Reality | Space Time | PBS Digital Studios*

~~2, Mathematical Modelling~~ *LECTURE 11  
: Classification of Mathematical Models*

RRB NTPC | MATHS | Mock Test -4 I

Adda247 Tamil *Dr Scott Stevenson*

*Fortitude Podcast. Bodybuilding,*

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*Nutrition, Training to failure* \u0026

*More. Part 1 Exploration 2: Hardy*

*Weinberg Lab: Displaying your data*

*Mathematical Modelling for Teachers -  
the book*

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Lab 2 Mathematical Modeling Hardy

The equations for the Hardy-Weinberg  
model are:  $p + q = 1$ , where  $p$  equals the

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frequency of the dominant allele, and  $q$  equals the frequency of the recessive allele.

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Mathematical Modeling - Hardy-Weinberg: Biology Lab ...

ABOUT THIS PRODUCT: The

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Application of the Hardy-Weinberg law of genetic equilibrium demonstrates that mutations, genetic drift and natural selection have a dramatic effect on gene frequency in a population. Using computer and Internet access, students will explore how a hypothetical gene pool changes from one generation to the next.

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## Mathematical Modeling

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#### AP02 - LAB 2: Mathematical Modeling: Hardy-Weinberg

- The student is able to use data from mathematical models based on the Hardy-Weinberg equilibrium to analyze genetic drift and effects of selection in the

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## Mathematical Modeling

evolution of specific populations (1A3 & SP 1.4, SP 2.1). • The student is able to justify data from mathematical models based on the Hardy-

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BACKGROUND - AP Central

Big Idea Investigation 2 T59 Evolution 1

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## Mathematical Modeling

### INVESTIGATION 2 MATHEMATICAL MODELING: HARDY-WEINBERG\*

How can mathematical models be used to investigate the relationship between allele frequencies in populations of organisms and evolutionary change? ?

BACKGROUND “Mathematics is biology’s next microscope, only better ...”

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## Mathematical Modeling

(Cohen 2004) It is not hard to understand the value of microscope technology to biology and how this technology opened up entire new worlds of biological understanding.



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## Mathematical Modeling

### Weinberg - Evolution ... College

benefits of a model — it forces you to think deeply about an idea. There are many approaches to model building; in their book on mathematical modeling in biology, Otto and Day (2007) suggest the following steps: 1. Formulate the question. 2. Determine the basic ingredients. 3.

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## Mathematical Modeling

Qualitatively describe the biological system. 4.

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BACKGROUND - About  
Hardy Weinberg: Mathematical Modeling.  
Description: The Hardy-Weinberg  
equilibrium is a principle stating that the

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## Mathematical Modeling

genetic variation in a population will remain constant from one generation to the...

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Investigation #2 - Mathematical Modeling:  
Hardy Weinberg ...

**MATHEMATICAL MODELING:**

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## Mathematical Modeling

**HARDY-WEINBERG** How can mathematical models be used to investigate the relationship between allele frequencies in populations of organisms and evolutionary change?

**BACKGROUND** Evolution occurs in populations of organisms and involves variation in the population, heredity, and

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## Mathematical Modeling

### differential survival.

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Hardy Weinberg Lab (AP Bio Lab #2) -  
Mrs. Strong's AP Bio ...

evaluate the results of the model with a  
critical eye. This is actually one of the  
powerful benefits of a model — it forces

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## Mathematical Modeling

you to think deeply about an idea. There are many approaches to model building; in their book on mathematical modeling in biology, Otto and Day (2007) suggest the following steps: 1. Formulate the question. 2.

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## Mathematical Modeling

### MATHEMATICAL MODELING:

### HARDY-WEINBERG\*

Investigation 2 Mathematical Modeling:

Hardy Weinberg Kyra Phillips Thursday

Feb 2 nd Ms. Castelli AP Biology

Abstract: Doing this lab gave me a better understanding of how inheritance patterns and allele frequencies change in a

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population over one generation.

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Investigation 2 Mathematical  
Modeling.docx - Investigation ...  
BIG IDEA 12 EVT AP02.120829 EDVO-  
Kit: AP02 Mathematical Modeling: Hardy-  
Weinberg See Page 3 for storage



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## Mathematical Modeling

### instructions. EXPERIMENT

**OBJECTIVE:** In this experiment, students will examine the effects of mutations, genetic drift and natural selection on gene frequency in a population by the Hardy-Weinberg law of genetic equilibrium.  
Using computer

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EDVO-Kit: AP02 Mathematical  
Modeling: Hardy-Weinberg

Lab 2: Mathematical Modeling: Hardy-Weinberg1 Overview In this lab you will:  
1. learn about the Hardy-Weinberg law of genetic equilibrium, and 2. study the relationship between evolution and change

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## Mathematical Modeling

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in allele frequency by using a mathematical model to demonstrate what can happen over many generations

Objectives

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## Mathematical Modeling

### AP BIOLOGY Investigation #2

Mathematical Modeling: Slide 3 / 35

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## Mathematical Modeling

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AP BIOLOGY Investigation #2  
Mathematical Modeling: Slide 3 ...

Ms. Song walks you through investigation 2 by showing you how to set up functions and graphs on an excel spreadsheet

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## Mathematical Modeling

Modeling using Excel Part ...

INVESTIGATION 2 MATHEMATICAL

N HARDY-WEINBERG How can

mathematical models b ... Mathematical

models and computer simulations

complexity of biological systems that

might otherw ... \* Transitioned from the

AP Biology Lab Manual (2001) are tools

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## Mathematical Modeling

used to explore the Ise be difficult or impossible to

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Bio Lab2-MathematicalModeling-Hardy-Weinberg

Lab 2: Mathematical Modeling: Hardy-Weinberg1. Overview. In this lab you will:

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## Mathematical Modeling

1. learn about the Hardy-Weinberg law of genetic equilibrium, and 2. study the relationship between evolution and change in allele frequency by using a mathematical model to demonstrate what can happen over many generations.

Objectives.

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AP Biology Name

Investigation II: Building a simple  
Mathematical Spreadsheet Hypothesis: If  
one creates a graph of this mathematical  
spreadsheet for each time they change the  
allele frequency, then the graph will match  
according to the allele frequencies that

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Lab 1: Mathematical Modeling: Hardy-Weinberg - Ap BIOLOGY ...  
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