

Genetics Problem Solving



Please bring your textbook to this laboratory session.

A. Objectives

Become familiar with

1. Probability calculations
2. Solving genetics problems

B. Before lab

3. Read *Probability is used to predict inheritance and Mendel's laws can be observed in human pedigrees* on pages 150-151 of your textbook. Also, review linked genes and the construction of genetic maps on pages 156-158.
4. In your notebook, answer questions 1-3, 11, and 21 - 23 in part E below.

C. During lab

In groups of four, work through the genetics problems. You can fill your answers directly into the worksheet. However, remember to include this exercise in the table of content of your lab notebook, glue the pages in and have them signed by your instructor.

D. After lab

1. Finish the worksheet if you have not done it in lab.
2. Practice solving genetics problems (e.g., <http://www.ndsu.nodak.edu/instruct/mcclean/plsc431/mendel/mendel1.htm>)

E. Predicting the outcome of various crosses

1. A female carrier of Tay-Sachs wants to have a child with a male carrier for Tay-Sachs. Tay-Sachs is inherited in an autosomal recessive manner. Using the letters "T" and "t" fill out the following table.

	Female	Male
Genotype		
Phenotype		
Genotypes of sperm/ova		

2. Determine the probability of them having a child with Tay-Sachs using a Punnett square (page 147 in Hillis).

Lab 12 Mendelian Inheritance Problem Solving Answers

Benjain Baxter Wells



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Personal Computing ,1984 Summaries of Projects Completed National Science Foundation (U.S.), *Summaries of Projects Completed in Fiscal Year ...* National Science Foundation (U.S.),1978 *Multiple Solution Methods for Teaching Science in the Classroom* Stephen DeMeo,2008 For the first time in science education the subject of multiple solution methods is explored in book form While a multiple method teaching approach is utilized extensively in math education there are very few journal articles and no texts written on this topic in science Teaching multiple methods to science students in order to solve quantitative word problems is important for two reasons First it challenges the practice by teachers that one specific method should be used when solving problems Secondly it calls into question the belief that multiple methods would confuse students and retard their learning Using a case study approach and informed by research conducted by the author this book claims that providing students with a choice of methods as well as requiring additional methods as a way to validate results can be beneficial to student learning A close reading of the literature reveals that time spent on elucidating concepts rather than on algorithmic methodologies is a critical issue when trying to have students solve problems with understanding It is argued that conceptual understanding can be enhanced through the use of multiple methods in an environment where students can compare evaluate and verbally discuss competing methodologies through the facilitation of the instructor This book focuses on two very useful methods proportional reasoning PR and dimensional analysis DA These two methods are important because they can be used to solve a large number of problems in all of the four academic sciences biology chemistry physics and earth science This book concludes with a plan to integrate DA and PR into the academic science curriculum starting in late elementary school through to the introductory college level A challenge is presented to teachers as well as to textbook writers who rely on the single method paradigm to consider an alternative way to teach scientific problem solving **The Software Encyclopedia** ,1988 **Summaries of Projects Completed in Fiscal Year ...** ,1978 Clinical Diagnosis; a Manual of Laboratory Methods Benjain Baxter Wells,1969 A working manual of clinical pathology Agricultural Gazette of Canada ,1920 **Personality and Personality Disorders** Steven E. Hyman,2013-10-08 First published in 2001 This is Volume 7 in a series of ten on the Science of Mental Health One of the most challenging areas of behavioral research is the study of personality and personality disorders The main challenge can be stated directly it is difficult to know with certainty which personality traits are fundamental and which are complex elaborations of fundamental traits This is a collection of works under the sections of Description Epidemiology Genes and Environment Peers and Neighborhoods Neurobiology and Behavior and Treatment *Hearing on the Reauthorization of the Higher Education Act of 1965* United States. Congress. House. Committee on Education and Labor. Subcommittee on Postsecondary Education,1991 **Agricultural Gazette of Canada** Canada. Department of Agriculture,1920 **The Journal of Education** ,1916 **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public

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