

# 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).

# Enrichment Activity Genetics Problem Solving

**SA Dillow**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle behind it.

**Enrichment Activity Genetics Problem Solving:**

## Whispering the Secrets of Language: An Emotional Quest through **Enrichment Activity Genetics Problem Solving**

In a digitally-driven world where monitors reign great and immediate communication drowns out the subtleties of language, the profound strategies and emotional nuances concealed within phrases usually get unheard. Yet, nestled within the pages of **Enrichment Activity Genetics Problem Solving** a charming literary prize sporting with organic emotions, lies an extraordinary journey waiting to be undertaken. Composed by an experienced wordsmith, this marvelous opus invites visitors on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the cloth of each word. Within the mental depths of the touching review, we will embark upon a sincere exploration of the book's primary themes, dissect their fascinating publishing style, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

<https://blog.gospelcrusade.org/results/browse/fetch.php/Giving%20Psychology%20Away.pdf>

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