

**White Eyed Trait in *Drosophila melanogaster***  
*Final Report*

***Your final report must follow this format and must be word processed***

**A. Title Page**

Investigation Title, Name of investigator and partner, Start and End Date of investigation, **Report Abstract** (250 words or less)  
*(Do Not put “cute” diagrams on the cover page).*

**B. Introduction**

Brief statement of the investigation objective and procedures used.

**C. Initial Observations**

Initial observations of parent fly population  
Observations of P cross (F<sub>1</sub> generation)  
Data tables

**D. Hypothesis on the genetic bases of the white eyed mutation**

**E. Prediction of phenotypic ratios for F<sub>2</sub> generation**

**F. Results of F<sub>2</sub> generation**

Data tables

**G. Chi-square analysis of results**

Analysis tables

**H. Conclusions**

Restate your hypothesis and provide a summary of the data that supports your hypothesis (be sure to include a summary of your statistical analysis).

If your original F<sub>2</sub> results were not as predicted (*p* value less than 0.05), formulate a new hypothesis and a new prediction. Describe the crosses that you would need to perform to test this new hypothesis.

*Optional:*

List additional questions to be investigated that may have been generated from your observations.

List improvements in your procedures that you would use in future experiments.

***You must submit your own report - Reports must be in type with proper sentence structure, grammar, and spelling - 20% of grade based on presentation. Penalty assessed for late reports.***