

**AP Biology Lab 8 format – set up your lab following the format here. Notice that the analysis questions will all be saved for the end (except for 8A), and the data table is on a single page for all cases.**

Objectives: (read overview and write 3)

Introduction: (read and explain the 5 conditions for H-W Equilibrium and why we use the theorem)

### **EXERCISE 8A**

Hypothesis: write a testable hypothesis based on the introduction and procedure

Procedure: summarize in paragraph form

Data: copy data table 8.1

Analysis: leave room for question 1 and 2

### **EXERCISE 8A**

#### **Case I – Ideal Hardy-Weinberg Population**

Objectives: (read case and write 1-2 sentence objective)

Procedure: (summary paragraph)

Allele Frequency: (copy table)

#### **Case II – Selection**

Objectives: (read case and write 1-2 sentence objective)

Procedure: (summary paragraph)

#### **Case III – Heterozygote advantage**

Objectives: (read case and write 1-2 sentence objective)

Procedure: (summary paragraph)

## Case IV – Genetic Drift

Objectives: (read case and write 1-2 sentence objective)

Procedure: (summary paragraph)

Data: (copy data table on page 98) – you will need one dedicated page for the data

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*Do this section after we complete the lab*

Analysis: answer all the questions for each case here, divide answers up by case

Case 1

Case 2

Case 3

Case 4

Hardy-Weinberg Problems: