**BIOLOGY B Spring 2019** STUDY UNIT # 1

GENETICS

OBJECTIVES

1. Recognize, use, and explain the meaning of the following terms: ***gene, gamete, genotype, phenotype, pure, homozygous, heterozygous, hybrid, dominant, recessive, P1****,* ***F1****,***and *F2***
2. Identify and explain the following types of inheritance: ***simple dominance* and *incomplete dominance*.**
3. Solve genetics problems by diagramming the cross and show expected ratios of offspring of the cross.
4. Describe a *backcross*; explain why it is used.

ASSIGNMENTS

1. Read pages 263-269. Make vocabulary cards for all 15 of the bold/highlighted terms in the reading. This is due Tuesday.
2. Problem Set 1 must be completed by the beginning of the period on Wednesday.
3. Problem Set 2 must be completed by the beginning of the period on Thursday.
4. Problem Set 3 must be completed by the beginning of the period on Friday.
5. **Supplies and Binder Check: MONDAY, March 18th**

ANNOUNCEMENTS

1. **Genetics problem sets will be checked in individually**. They are worth **10 lab points** each.
2. There will be a quiz on Thursday, covering the genetics concepts in Problem Set 1 and the vocabulary.

**Quote:** "Success, remember is the reward of toil.”

Sophocles

SCHEDULE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **March 11** | **March 12** | **March 13** | **March 14** | **March 15** |
| Biology Rules!    Fruit Fly Genetics      Introduction to Genetics | Vocabulary Activity    Receive  Problem Set 1 | Check-In Problem Set #1  Discuss Backcross  (Test Cross)    Receive  Problem Set 2 | **Genetics Quiz 1**    Check In PS#2  Discuss Incomplete Dominance    Receive  Problem Set 3 | Check in PS #3  Discuss Probability      Introduce  *Alien Invasion Genetics Project* |