**BIOLOGY B Spring 2019 STUDY UNIT # 2**

GENETICS

OBJECTIVES

1. Define *probability* and be able to determine the probability of outcomes in a genetic cross including the determination of gender.
2. Define, give examples of, and do genetic crosses of traits inherited by codominance such as ABO blood types. Be able to work genetics problems involving ABO blood groups.
3. Explain how the gender of offspring is determined in mammals.
4. Explain what is meant by a sex-linked trait, and solve genetics problems involving sex linkage.

ASSIGNMENTS

1. Supply and Binder Set Up check: Monday, March 18.
2. Probability Homework is due Monday, March 18.
3. Optional Reading: pages 341-348 (Pedigrees & Genetic Disorders)
4. Problem Set 4 must be completed by the END of the period on Tuesday.
5. Optional Reading: pages 349-353 (Sex-Linked Traits for Problem Set #5)
6. Problem Set 5 must be completed by the beginning of the period on Thursday.

ANNOUNCEMENTS

1. There will be Genetics Quiz #2 on Tuesday covering the genetics concepts in **Problem Sets 1-3**.
2. There will be Genetics Quiz #3 on Friday covering Problem Sets 1-5.
3. Alien Invasion project is due on **Wednesday, March 27th**.

QUOTE: “100% of the shots you don't take don't go in.”

*Wayne Gretzky*

SCHEDULE

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **March 18** | **March 19** | **March 20** | **March 21** | **March 22** |
| Discuss Multiple Alleles and Codominance  Receive  Problem Set 4  Review for Quiz 2 | **Genetics Quiz 2**  **(PS’s 1-3)**  Check in Problem Set #4 | Discuss Sex-Linked Traits  Receive  Problem Set 5  **EXPLORING SCIENCE DAY!** | Check in  Problem Set #5  Work on  *Alien Invasion* | **Genetics Quiz 3**  Work on  *Alien Invasion* |