

## Life Science

### Second Semester Study Guide

The final will have 2 parts: multiple choice and short answer including genetic problem solving. The questions will be from chapter 5, 6, 7, parts of 8 which were included with chapter 7 notes, kingdoms notes, & the human body system notes. You are responsible for all of them in detail. Make sure to study all **key terms**, notes, and workbook. Also do not forget to read the book!

#### Some Important Ideas:

1. Explain Mendel's genetics experiments.
2. Identify the factors that control the inheritance of traits in organisms.
3. Explain how geneticists use symbols to represent alleles.
4. How are Punnett Squares useful to geneticists?
5. Use Punnett Square to cross single genes & codominance.
  - a. In Mountain Boomers, the gene for long tail is dominant over the gene for short tail. Use a Punnett Square to predict the result of a cross between a homozygous Long-tailed and a homozygous Short-tailed Mountain Boomer. What do the offspring look like?
  - b. In dogs, wire-hair (W) is dominant to smooth (w). In a cross of a homozygous wire-haired dog with a smooth-haired dog...
    - i. What will be the phenotype of the F1 generation?
    - ii. What would be the genotypes?
    - iii. What would be the ratio of wire-haired to smooth-haired dogs in the F2 generation produced from the F1?
  - c. Red-green colorblindness is inherited as a sex-linked recessive gene and is found only on the X chromosome. A person with this affliction cannot distinguish between shades of red and green due to a lack of a special protein in the color receptors of the eye. A man with normal vision marries a woman who is red-green color blind. What are their genotypes? What is the probability that their children will be colorblind?
  - d. A person with blood type B marries a person with blood type AB.
    - i. What are the possible genotypes for these 2 people?
    - ii. If these parents have a child with blood type A, what is their exact genotype?
    - iii. Draw the Punnett Square and write the genotypic and phenotypic ratios to find out the chances of having a child with type A blood.
    - iv. What kind of inheritance is this?

# Biochemistry Second Semester Study Guide

**Jin-Ying Zhang**



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