
Name

Date

Class

Chapter 15: The Theory of Evolution

**Section 15.1 Natural Selection
and the Evidence for Evolution**

In your textbook, read about natural selection and adaptations.

Identify the type of structural adaptation that the statement describes. If the statement applies to both, write both. Use these choices: mimicry, camouflage, both.

- _____ 1. Enable(s) an organism to blend in with its surroundings.
- _____ 2. Provide(s) protection for an organism by copying the appearance of another species
- _____ 3. The coloration of a flounder that allows the fish to avoid predators.
- _____ 4. Involve(s) changes to the external appearance of an organism
- _____ 5. A flower that looks like a female bee.

Section 15.2 Mechanisms of Evolution

In your textbook, read about population genetics and evolution

Determine if the statement is true. If it is not, rewrite the italicized part to make it true

- 6. Adaptations of species are determined by the genes contained in the DNA code.

- 7. When Charles Mendel developed the theory of natural selection in the 1800s, he did not include a genetic explanation. _____
- 8. Natural selection can act upon an individual's genotype, the external expression of genes. _____
- 9. Natural selection operates on an individual over many generations.

- 10. The entire collection of genes among a population is its gene frequency.

- 11. If you know the phenotypes of all the organisms in a population, you can calculate the allelic frequency of the population. _____
- 12. A population in which frequency of alleles changes from generation to generation is said to be in genetic equilibrium. _____