TOPIC 7.4- Population Genetics

Evolution is characterized by a change in the genetic makeup of a population over time and is supported by multiple lines of evidence.

1. Explain how random occurrences affect the genetic makeup of a population.
    - Evolution is also driven by random occurrences—
        a. _____ is a random process that contributes to evolution.
            1) Define evolution in your own words:

        b. Genetic drift is a nonselective process occurring in _____ populations.
            2) List and describe the two types of genetic drift:

            i. _____-

            ii. _____-

        c. Migration/gene flow can drive evolution.
            3) How would you describe migration? Define below:

2. Describe the role of random processes in the evolution of specific populations.
   ~circle the correct choice in the following statement~
    - Reduction of genetic variation within a given population can *(increase/decrease)* the differences between populations of the same species.

1) Give 3 examples of random processes involved in evolution:

i.

ii.

Iii.

3. Describe the change in the genetic makeup of a population over time.
    - Mutation results in genetic variation, which provides phenotypes on which _____ _____ acts.

        1) Describe 3 interesting examples of natural selection in the real world:

        i.

        ii.

        iii.