**Activity**

**Natural Selection**

**(Grade 10)**

**I. OBJECTIVES:**

1. Students will be able to understand how individual attributes affects survival and adaptability.
2. Students will learn how natural selection affects evolution through Phet simulation.

II. INSTRUCTIONS:

Explore the Phet simulation for 5 minute and get familiar in operating the program. Perform the tasks indicated below. Then answer the following questions.

III. TASKS

A) First, select the dominant and recessive traits. ( eg. Color of the fur : white or brown fur.) Then, click the add friend. For the selection factor, select food to be available then select equator for the environment. Let the simulation run for a few generations ,then select the wolves ( predator)to be introduced. Observe what happened.

Observation:

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B) Do the same with task A to task B. Just change the environment to arctic.

Observation:

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IV. QUESTIONS:

1. Base on your observations, which color of fur is more likely to survive in an equator environment? In arctic environment? Explain.

2. Is the kind of environment also affect the survival of an individual? If yes, how ?

3. In your own words, explain how traits affect the survival of an individual and how does natural selection affects evolution.

**V. CONCLUSION**

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