**Population Growth Analysis Assignment (Choice 1)**

**Learner Outcome:**

The student will be able to analyze graphs and pictorial information showing fox, rabbit, and plant populations and interpret data to understand cycles of increases and decreases to these populations (MS-LS2-1).

**Directions:**

Go to the science web site ([www.sciencebjhs.weebly.com](http://www.sciencebjhs.weebly.com)). Click on the link, “Understanding Cycle of Population Growth and Decline”. Click through and read the directions.

**Tasks and Questions:**

1. Choose the picture view. Select the numbers of organisms for the following populations. Push Start.

**Foxes: 200**

**Rabbits: 500**

**Plants: 10,000**

What was your score?

Why happened to the fox population? Why?

Switch to the graph view. Click the graph until you reach the graph showing the rabbit population. After 35 years, approximately what was the rabbit population?

1. Choose the picture view. Select the number of organisms for each population of your choice. Write the numbers below. Push Start.

Foxes \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rabbits\_\_\_\_\_\_\_\_\_\_\_\_

Plants\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What was your score? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

After 50 years, what was the ending number of organisms for each population?

Foxes\_\_\_\_\_\_\_\_\_\_\_\_\_

Rabbits\_\_\_\_\_\_\_\_\_\_\_\_\_

Plants\_\_\_\_\_\_\_\_\_\_\_\_\_

Based on your score and ending numbers, do you think that you choose good numbers showing stable cycles of increase and decrease in the populations of the organisms? Explain.

1. Choose different numbers for each of the populations based on your analysis of your prior information. What was your score? Did you score better?

**Population Growth Analysis Assignment (Choice 2)**

**Directions:**

Go to page 38 in your environmental science text book. Answer questions 21-24 regarding the data table on the deer population.

**Question 21:**

Create a line graph using the data in the book on the graph paper on the back of this sheet.

**Question 22:**

**Question 23:**

**Question 24:**