**Population Growth Analysis Assignment**

**Learner Outcome:**

The student will be able to analyze graphs and pictorial information showing lynx and hare populations while interpreting 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, “Predation Simulation”. Click through and read the directions. Click on “New Generation”. Observe changes after each generation and answer the questions below.

1. What do you notice about the hare population in the 4th generation? What do you notice about the lynx population?
2. According to the line graph, how many rabbits do you see in the 4th generation? How many lynxes do you see? Why do the rabbits increase?
3. In the 8th generation, how many hares do you see? Click to the line graph to observe. How many adult lynx do you see? Why does the lynx population increase?
4. In the 9th generation, what happens to the hare population? Look at the line graph for data. Why did this happen?
5. In the next few generations after the 9th generation, what happens to the lynx population? Why does this occur?
6. As you slowly click through to generation 30, what seems to happen? What do you notice about your overall graph at the end of generation 30?