NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**4**

DATE \_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD \_\_\_\_\_\_\_\_\_\_\_\_

CCC #1

PATTERNS

1. Observe the Predator / Prey simulation. <http://www.eduweb.com/portfolio/studyworks/predators8a.html>

Indicate if the populations of the Lynx and Hare **increase** () or **decrease** () every 3 generations.

G = Generation

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **G 3** | **G 6** | **G 9** | **G 12** | **G 15** | **G 18** | **G 21** | **G 24** | **G 27** | **G 30** |
| Lynx |  |  |  |  |  |  |  |  |  |  |
| Hare |  |  |  |  |  |  |  |  |  |  |

2. Why does the growth/increase of the Lynx’s population lag behind the hare population?

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3. When does the hare’s population increase?

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4. Predict what the graph would look like for both the lynx and hare’s populations between generations 30 and 40.

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5. Why were you able to make the prediction in question #4?

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6. What is the PATTERN in this predator/prey relationship?

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PATTERN ACTIVITY

WHAT DO YOU ALWAYS HAVE BUT ALWAYS LEAVE BEHIND???

**Materials:** pencil, paper, tape, index finger

**Instructions:**

1.Take a pencil and scribble on a piece of paper until you have a nice black

mark.

2. Rub your index finger in the black mark until the end of your finger is

 grayish/black.

3. Obtain 2 to 3 inches of tape and press it onto your black covered index

 finger.

4. Carefully remove the tape and place it on a piece of white paper.

1. Describe what you see in your fingerprint? Is there a PATTERN in your fingerprint? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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2. Compare your fingerprint with the students in your group. Draw the general shape of each of your fingerprints.

3. How are fingerprints classified or categorized?

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4. Explain how identifying patterns in fingerprints may be helpful.

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