**Ecology Benchmark Intervention**

***Part 1 – Ecological Levels & Relationships***

1. Go to: <http://www.youtube.com/watch?v=jSkqBe4HclA> and watch the Brightstorm tutorial on symbiotic relationships. Answer the questions below:
   1. What does the narrator say a ***symbiotic relationship*** is?
   2. Below, describe AND list his examples for mutualism, commensalism, and parasitism

**Mutualism Commensalism Parasitism**

**Description:**

**Example:**

* 1. What does he say ‘predation’ is?

1. Next, go to <http://www.youtube.com/watch?v=woSO0D94VGA> and watch the short video on abiotic vs. biotic factors.
   1. What does ***abiotic*** mean?

Examples mentioned for abiotic:

* 1. What does ***biotic*** mean?

Examples mentioned for biotic:

1. Next, go to: <http://www.youtube.com/watch?v=tndD-cjwgTI> and watch the Lion King lesson on ecological levels. Who does the teacher use as an example for each of the levels:
   1. Organism –
   2. Population –
   3. Community –
   4. Ecosystem –

\* Which level is the ONLY level that includes ***abiotic*** (or nonliving) factors?

***Part 2 – Energy & Transfers***

1. Next, go to: <http://www.youtube.com/watch?v=SWvtRf4TAO4> and watch the cartoon on energy pyramids, food chains, and food webs. Answer the questions:
   1. The narrator says that “plants are the only living organisms that are able to make their own \_\_\_\_\_\_\_\_\_\_\_\_\_\_ by photosynthesis”.
   2. Animals that eat plants are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Which animal did they show as the example?
   3. What does the narrator say a carnivore is?

What was the example he showed?

* 1. Summarize the description of a ‘food chain’:

\* Now draw one of the examples of a food chain – be sure to label each component of the food chain as a producer, primary consumer, etc.

* 1. Summarize the description of a ‘food web’:

\* Write or draw the example of a food web that the narrator uses:

* 1. Explain what an energy pyramid is:
  2. How much energy is **lost** at each level?
  3. Draw the energy pyramid that the narrator shows:

1. Last, watch the cycles song found at: <http://www.youtube.com/watch?v=P_ru5UnrUTs> Summarize the key points to the Nitrogen, Carbon, and Water Cycles.