**Leaf Litter Lab Data Analysis**:

Make a Biomass Pyramid graph of the Kingston multi-year Biomass Ideal Data. We will use an area model to build our pyramid. This means we make a rectangle with the same area as the biomass for each trophic level, beginning with producers as the base of our pyramid. Your pyramid should take up more than half a page. Label your rectangle “Producers” and the total biomass (include units). Do the same for each trophic level (producer, 1st order consumer, 2nd order consumer, etc.), stacking each “block” centered on top of the other. Title the graph. *KHS 3 Year Biomass Pyramid.*

Discuss these questions as a group and record in your journal in complete sentences.

**Analysis Questions:** (Answer in your journal – and IQIA (incorporate the question in your answer) i.e. Q. 1. The category of organisms in the greatest number was\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Use KHS 3 Year Data.

1. Which category of organisms had the greatest biomass? Explain why this might be so.
2. Which category of organisms had the lowest biomass in the all-class data? Explain why this might be so.
3. Where did the spider gets its matter from?
4. Where did the plants (leaves) get their matter from?
5. What is the relationship between biomass and energy?
6. Besides producers and consumers, what other ecological relationships might exist in leaf litter?
7. Do you think there would be as many organisms in the same amount of beach sand? Discuss why.
8. Why did we collect data from all classes over many years and not just from your group? Explain.
9. **Biodiversity** refers to the number of different kinds, or species, of organisms present in an ecosystem. From your observations, how would you rate the biodiversity of the leaf litter? Explain.
10. **Answer the investigative question:** Is there a MEASURABLE relationship of matter and energy transfer between the trophic levels in an Ecosystem? Quote your data to justify your answer. Quote your data to justify your answer.

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