**Numbers and Biomass Pyramids**

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1. Compare and contrast the two pyramids in model 2. List at least two similarities and two differences.

2. Which of the two pyramids in model 2 gives a more accurate account of what occurs in this ecosystem? Why?

3. Why do you think the number of organisms decrease as you move up the pyramid? (hint: look at the energy pyramids on the first page

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4. Biomass is measured as grams of dry mass within an area. What is the mass of the oak trees in Pyramid X of Model 3?

5. What is the mass of the phytoplankton in Pyramid Y of Model 3? Refer to Model 3.

6. Identify the trend in biomass as you move up the trophic levels in Pyramid X.

7. Is the trend in biomass in Pyramid X the same as seen in Pyramid Y? Explain your answer.

8. What type of organisms are missing from all of the trophic pyramids shown in Models 2-3?

9. Explain why a vegetarian diet is considered a more energy-efficient diet for humans than one based on beef, chicken or pork.