Arts and Science college, Pulgaon Department of Zoology Topic: Ecological Pyramid B. Sc. SEM I (Zoology) 2017-2018

 Instead of representing trophic levels in a food web, an ecological pyramid can be used.



- Does this pyramid represent a food chain or web?
- How could this pyramid be changed to represent a food web?





Pyramid of Energy

- What happens to the energy as you go up?
- How much energy is available for the next level? (What %)



Pyramid of Energy

Pyramids of energy show the relative amount of energy available at each trophic level of a food chain or food web.





Pyramid of Energy



- How is this pyramid different from the previous ones?
- What could the multiple pictures of the species at each level represent?



Biomass-the total amount of living tissue within a given trophic level.

A pyramid of biomass illustrates the relative amount of living organic matter available at each trophic level



- What information would this pyramid include if it were a pyramid of biomass?
 - How do they get a number total for the biomass of a population?







A pyramid of numbers shows the relative number of individual organisms at each trophic level.



- What information would this pyramid include if it were a pyramid of numbers?
- How do they get a number total for a population of organisms?







Woodpecker (Secondary consumer)



Insects (Primary consumer)





Pyramids of Temperate Forests

• Numbers

Trees are huge but not as numerous as many smaller forest creatures.

• Biomass

• Energy

