

- What is the study of ecology?
- Environment – Explain the difference between biotic and abiotic parts.
- Organization – Describe what each level includes.
  - Organism
  - Population
  - Community
  - Ecosystem
  - Biosphere
- Methods of measuring populations
  - Sampling- Be able to use sampling to determine the population.
  - Mark and recapture- Explain how and when to use it.
- Population Graphs
  - Be able to make one
  - Explain what limiting factors are.
  - Describe the story they tell
  - Explain the human population graph.
- Energy connection- Be able to identify an organism at each level of the energy pyramid.
  - Producers – What is their source of energy?
  - Decomposers- What are they?
  - Consumers
    - Herbivores
    - Carnivores
    - Omnivores
    - Scavengers
- Food Chains- Be able to draw one with the arrow in the correct direction.
- Food Webs- Be able to draw one with the arrow in the correct direction. Be able to explain what happens if a part of the web is taken away.
- Energy Pyramid- How much energy is passed along? What is the wolf's role?
- Habitat and niche- Describe the difference between an organism's habitat and niche.
- Interactions
  - Competition
  - Symbiosis
    - Mutualism
    - Commensalism
    - Parasitism
    - Coevolution