WG 3200- Unit 3 Review Guide

- Define ECOSYSTEM
- Define and explain PRODUCERS and the different levels of CONSUMERS
- Define and explain DECOMPOSERS
- Define and explain what a FOOD CHAIN is.
- Define and explain what a FOOD WEB is.
    - What are the similarities between food chains and food webs?

- Define and explain what a FOOD PYRAMID is.
    - Know what TROPHIC LEVELS are and how they are related to food pyramids.
    - Know why food pyramids are shaped the way they are.
    - Remember how the size of organisms changes as you move up the pyramid.
- How does the ENERGY AVAILABLE change as you move up a food pyramid?
- What percentage of the sun's energy do producers actually store as food?
- What are some of the reasons why consumer levels lose energy?
- What percentage of energy is stored as food at each consumer level?
- Define and explain BIOLOGICAL AMPLIFICATION.
- How do energy flow and poison flow differ in a food pyramid?
- Understand how introducing a new organism to an ecosystem might affect the rest of the organisms in that ecosystem.

- Be able to define CLIMAX VEGETATION and BIOME.
- Be able to identify world's ecosystems by:
    - Climax vegetation
    - Location
    - Adaptations (plants and animals)
    - Climate
- Be able to explain how LATITUDINAL SUCCESSION and ALTITUDINAL SUCCESSION are related.

- Define SOIL and be able to identify the characteristics
- How does climate affect soil development?
- Be able to explain the role of MINERAL MATERIALS, ORGANIC MATERIALS, AIR, MOISTURE, and TEXTURE in soil composition (these are the characteristics listed above).
- Know the difference between the texture of SAND, SILT and CLAY

    - What is the best combination of each for good soil?
    - Know how to use the soil pyramid chart.
- What is a SOIL PROFILE? What are the 4 layers involved?
    - Be able to describe the 4 layers or recognize characteristics.
- Know the 3 types of soil: PODZOL, CHERNOZEM, LATOSOL
    - Be able to recognize the characteristics of each.
- Environmental factors affecting soil
    - Be able to define and explain LEECHING
    - Be able to define and explain CALCIFICATION
    - Be able to explain the affect that TEMPERATURE has on the development of HUMUS
- Be able to use the SOIL TRIANGLE to determine the quality of a soil sample.