

Science 1206 Comprehensive Unit

“Sustaining Ecosystems”

You should know, or be able to do, the following key things..

(Make sure you have a COMPLETE set of my notes, and don't just sit there and stare at them, I showed you a better way of studying. That is **YOUR** responsibility)

WARNING : Any discussion we had, any Labrador examples I gave, any Internet videos, and extra terms on the side may be used in some way, shape, or form on the test as long as they fit with the key learning objectives of this section of the course.

- Describe a paradigm shift, and use the idea of sustainability, biomagnification, or pesticide use as an example of one in progress
- Define ecology, population, community, and ecosystem, explain how an ecosystem is affected by biotic and abiotic factors - with lots of supporting examples
- Define succession (2 kinds), and the things that contribute to it (biotic and abiotic factors), and what is meant by a climax community
- Explain how energy is captured by, and flows through, an ecosystem (including all terms on your ecology review blue sheet)
- Distinguish between pyramids of biomass, energy, and numbers, and be able to explain the appearance of each - in both a stable and changed ecosystem !
- Define niche and habitat, competition (two types), and be able to provide examples
- Differentiate between food chains and food webs. Be able to draw either, make changes to it, or explain how the loss or introduction of a creature would affect it.
- Explain the concept of bioaccumulation with supporting examples, including pesticide use here and abroad
- Be familiar with the workings of the carbon cycle, nitrogen cycle, water cycle, and some basic things humans have done to alter each one...this includes going over your three page handout on the cycles !
- Be familiar with the climate, location, soils, flora and fauna for the four major Canadian biomes.
- In addition to these key points, be able to explain other terms and definitions as they appear in your notes and provide examples to support your answer.