

# BIOLOGY Review... Ecology

Chapters 35, 36, 37

## ECOLOGY:

STABILITY IN AN ECOSYSTEM IS A BALANCE BETWEEN COMPETING EFFECTS.

1. Define ecology, biosphere, population, community, ecosystem, habitat.
2. What is a biome? Give 2 examples of land biomes and 2 examples of water biomes.
3. Define 'limiting factors' and 'carrying capacity' for populations.
4. Give 2 examples of density-dependent and density-independent limiting factors.
5. Communities interact in many ways. How do mutualism, parasitism and commensalisms differ?
6. Draw a food chain. Label autotrophs, heterotrophs, decomposers, producers and consumers.
7. What is biomass? What does an ecological pyramid show? What is a food web?
8. Summarize the movement of carbon through the environment in the carbon cycle.
9. Summarize the movement of nitrogen through the environment in the nitrogen cycle.
10. Summarize the movement of water through the environment in the water cycle.
11. What is 'biodiversity'? *Use the glossary*) How do you think it is affected by changes in habitats?