Textbook sections: 1.1, 1.2, 1.3, 1.4, 1.5, 1.11, 1.12, 2.1, 2.2, 2.5, 2.6, 3.1

1. I know how to create food chains and food webs for different ecosystems and species with up to 6 different species included.
2. I can list the trophic levels found in an ecosystem and am able to provide examples for different food chains.
3. I can draw a pyramid of numbers and explain how it relates to an ecosystem, and how many species are required to support each trophic level.
4. I am able to provide examples of bioaccumulation and explain how a chemical like DDT or a pesticide can move through different trophic levels.
5. I know what an indicator species is and how they help determine the health of an ecosystem.
6. I can explain the role that wolves play in an ecosystem and know why their populations are important.
7. I have an understanding of how frogs and amphibians are at risk, why populations are vanishing and can provide some examples of how humans can help.
8. I understand the carbon cycle, can explain the steps involved, the difference between organic and inorganic carbon and can label a diagram of the cycle.
9. I understand the nitrogen cycle, can explain the steps involved, know how bacteria are involved and can label a diagram of the cycle.
10. I have learned about the issues surrounding a number of Canadian endangered species, and understand the meaning of the different classifications that are used. (Extinct, Endangered, Vulnerable, Threatened, Extirpated)
11. I know how to define a biome.
12. I can list Canada’s 4 main biomes.
13. I am able to provide details about location, climate, unique plants and animals, plant and animal adaptations.
14. I am able to discuss different environmental issues for each of Canada’s biomes.
15. I know what an invasive / exotic species is, can provide examples of these species and able to explain how they can affect an ecosystem.

Key Terms

Abiotic

Autotroph

Bioamplification

Biodiversity

Biome

Biotic

Boreal forest

Carbon cycle

Carnivore

Cellular respiration

Community

Consumer

Decomposer

Denitrification

Detritus

Ecology

Ecosystem

Endangered

Extinct

Extirpated

Food chain

Food web

Grassland

Habitat

Herbivore

Heterotroph

Humus

Inorganic

Litter

Niche

Omnivore

Organic

Permafrost

Pesticide

Photosynthesis

Population

Primary consumer

Producer

Secondary consumer

Temperate deciduous forest

Threatened

Trophic level

Tundra

Vulnerable

Review Questions

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1 (a-g,j,k), 2 (abhi), 3-8, 10, 11, 14, 16, 24, 25