

Chapter 1

Ecology: _____

Species: _____

Population: _____

Community: _____

Ecosystem: _____

Biome: _____

Biosphere: _____

Photosynthesis: _____

Chemosynthesis: _____

Cellular Respiration: _____

Trophic Level: _____

What happens to energy as it passes from one trophic level to the next?

Pyramid of Energy : _____

Draw an example of a pyramid of Energy

How may changes in one trophic level affect other trophic levels?

Ecotone: _____

How does the amount of terrestrial life relate to the amount of precipitation and temperature of an area?

Tundra Biome: _____

Boreal Forest Biome: _____

Temperate Deciduous Forest Biome: _____

Prairie Grassland Biome: _____

Marine Biome: _____

(Marine Biome) Neritic zone: _____

(Marine Biome) Oceanic Zone: _____

(Marine) Bathyal Zone: _____

(Marine) Abyssal Zone: _____

Estuary Biome: _____

Freshwater Biome: _____

(Freshwater Biome) Lakes and Ponds: _____

Littoral Zone: _____

Limnetic Zone: _____

Benthic Zone: _____

Draw and Label the three zones of the lake and pond biome:

(Freshwater Biome) Rivers and Streams: _____

Chapter 2

Population Size (N): _____

Population Density (Dp): _____

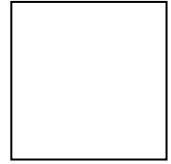
Transect: _____

Quadrat: _____

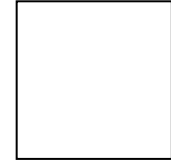
Mark-recapture: _____

Distribution Pattern: _____

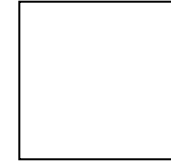
Uniform Distribution: _____



Clumped Distribution: _____



Random Distribution: _____



Demography: _____

Immigration (i): _____

Emigration (e): _____

What is the equation for population change? _____

A meadow vole population grew from 150 to 245 in one year. If 103 voles were born, 43 emigrated, and 56 immigrated, what was the total mortality for the year?

Fecundity: _____

Biotic Potential: _____

Survivorship: _____

Exponential Growth (J Curve): _____



Density Dependent Factor: _____

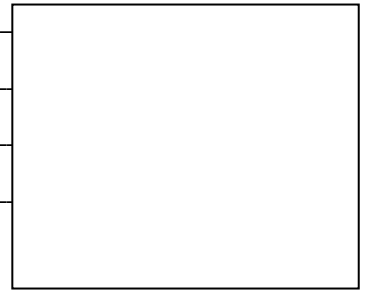
Density Independent Factor: _____

Environmental Resistance: _____

Why can't a population grow to its biotic potential?

Lag Phase: _____

Logistic Growth (S Curve): _____



R-selected Strategy: _____

K-selected Strategy: _____

Population Dynamics: _____

Intraspecific competition: _____

Interspecific Competition: _____

Symbiosis: _____

Mutualism: _____

Commensalism: _____

Parasitism: _____

Why caused the population explosion after the bubonic plague? _____

What things lead to an increase of human environmental carrying capacity?

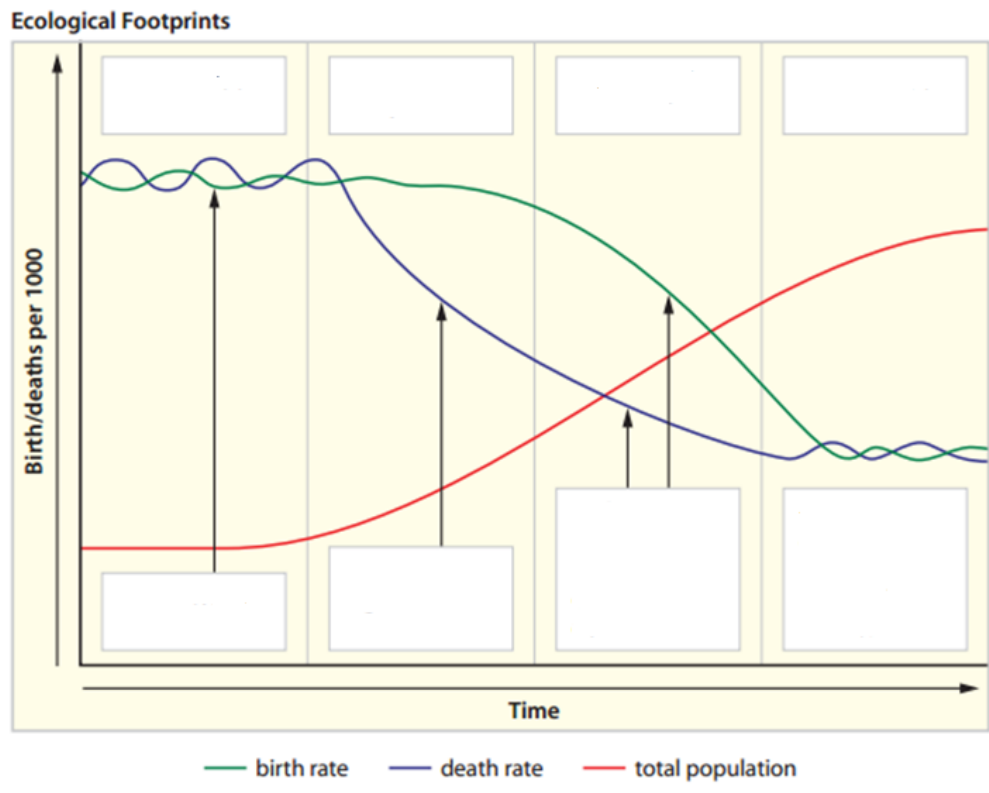
Demographic Transition: _____

Pre-transition Phase: _____

Early-transition Phase: _____

Late-transition Phase: _____

Post-transition Phase: _____



Population Pyramid: _____

What does a triangle population pyramid indicate? _____

What does a rectangular population pyramid indicate? _____

What does an inverted triangle population pyramid indicate? _____

What percent of the population consumes 86% of the world's resources and produces 53% of carbon dioxide emissions? _____

Ecological Footprint: _____

What are the three main components of your Canadian Ecological Footprint?

Available Biocapacity: _____

Biodiversity: _____

Sustainability: _____
