

## VI. What is carrying capacity?

A. Carrying Capacity =

B. Carrying capacity is \_\_\_\_\_ for each population.

## VI. What are limiting factors that affect carrying capacity?

(What makes population size increase or decrease?)

A. Limiting factors = any biotic or abiotic factor that \_\_\_\_\_ of a population.

- a. Availability of resources: food, water, shelter/space, soil nutrients, etc.
- b. Predators

B. Types of Limiting Factors

a. Density- Independent Factor =

Examples:

1. Weather/climate
2. Natural disasters (floods, earthquakes, fires)
3. Pollution

b. Density- Dependent Factor =

\_\_\_\_\_ ; based on

Examples:

1. Food/water
2. Disease spread
3. Competition

## VII. Graphing Population Growth

A. Logistic Growth ( \_\_\_\_\_ )

- a. As population grows, it \_\_\_\_\_ growing as it reaches the carrying capacity
- b. Population may \_\_\_\_\_

B. Exponential Growth ( \_\_\_\_\_ )

- a. Population size is growing at a \_\_\_\_\_
- b. Happens when there are no \_\_\_\_\_
- c. Realistically, could not go on forever
- d. Many of our environmental issues are considered \_\_\_\_\_ that we are reaching the planet's \_\_\_\_\_