# POPULATION PRACTICE PACKET
## AP Environmental Science
### Population Growth, Curves & Reproductive Strategies

Growth Curves

The number of individuals in a population can change based on many variables. Density independent factors affect all individuals in a population the same and may include physical factors such as climate, weather or salinity or catastrophic events such as floods, fires or drought. Density dependent factors are more effective with a high-density population and include food supply, disease, parasitism, competition and predation.

1. In *cooler* climates, aphids (plant lice) go through a huge population increase during the summer months. In the fall, their numbers decline sharply. Identify one density dependent and one density independent factor that regulates this seasonal fluctuation.

Populations show two types of growth, exponential and logistic.

With exponential growth, a population increases by a fixed percent and its resulting graph is the classic "J-shaped" curve. Exponential growth occurs in nature with a small population and ideal conditions; however, it cannot be sustained indefinitely.

With logistic growth, due to of environmental resistance, population growth decreases as density reaches carrying capacity. Carrying capacity (K) is the maximum number of individuals a habitat can support over a given period of time due to environmental resistance. The graph of individuals vs. time yields a S-curved growth curve. The maximum rate at which a population can increase is its biotic potential. The biotic potential of a species is influenced by the age at which reproduction begins, the time the species remains reproductive, and the number of offspring produced during each period of reproduction.

*Complete the following table for the two types of growth curves:*

| growth curve | shows unlimited, unchecked growth | growth limited by extrinsic or intrinsic factors | shape of curve (S or J) | shows carrying capacity for a population | typical of short term or long term growth |
|---|---|---|---|---|---|
| 2. exponential | | | | | |
| 3. logistic | | | | | |

*For each of the following scenarios circle whether the population growth would best be represented by a logistic or exponential growth curve.*

4. a strep bacterium invades your throat and reproduces for 4 hours
   exponential or logistic

5. the flea population on a rat is monitored for 5 weeks with flea powder added
   exponential or logistic

6. loggerhead turtle populations are tracked for 5 years in the Atlantic
   exponential or logistic

7. a lucky yeast cell falls into your glass of grape juice and reproduces for 10 hours
   exponential or logistic

8. bull frog population in a local pond is monitored for 3 seasons
   exponential or logistic

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**Minjie Lin**

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