

STUDY QUESTIONS:

What is a population? (DOK1)

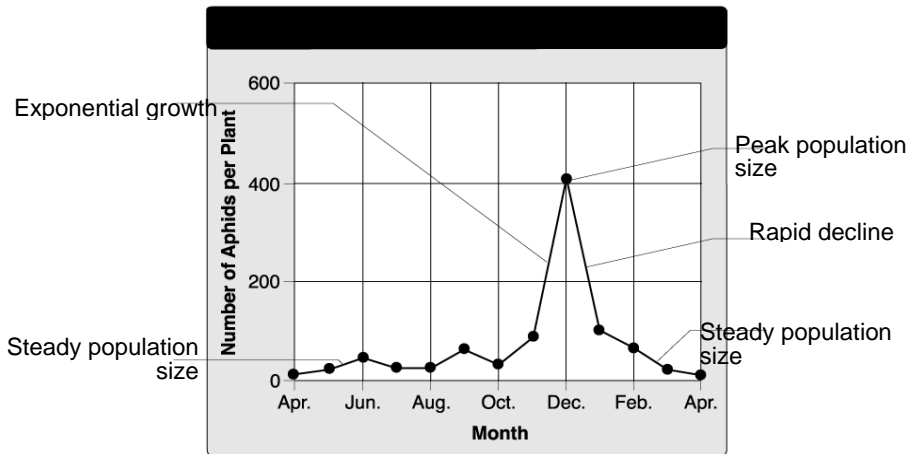
How do you measure populations (DOK2)

Compare and contrast the 3 types of population densities. (DOK3)

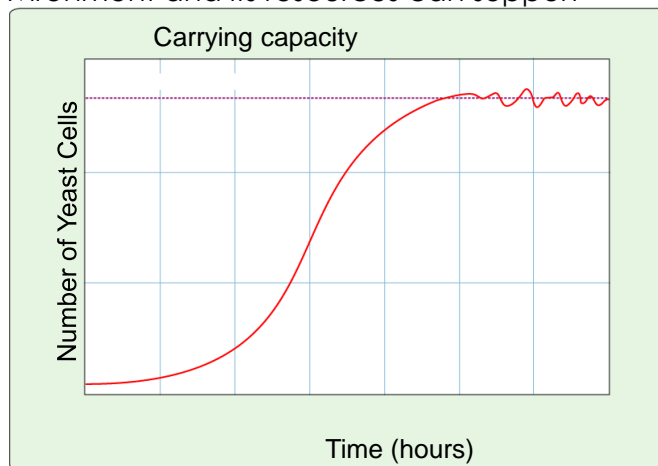
Finish writing your study questions here... (Remember 1 question for EACH bullet)

NOTES:

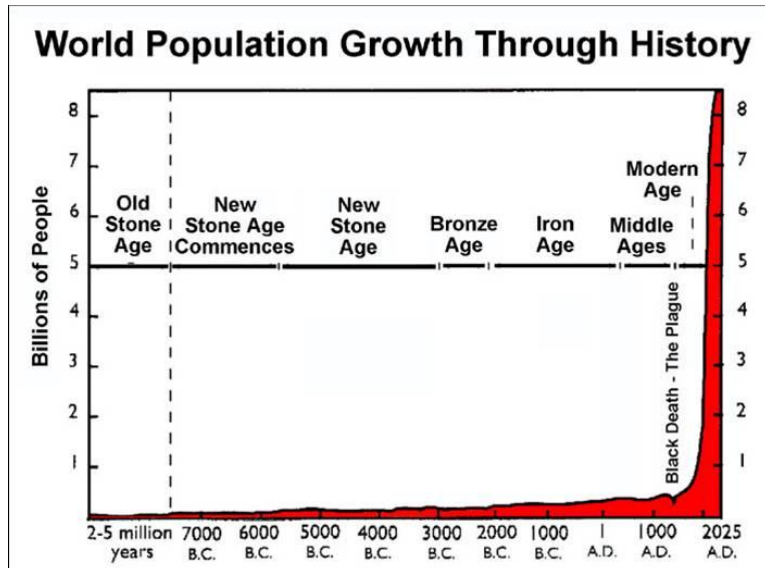
- _____: A group of organisms that belong to the same species living in the habitat at the same time.
- **GROWTH RATE** = _____ - _____
 - **Immigration:** moving _____ an area
 - **Emigration:** _____ an area
 - _____
- **POPULATION DENSITY:** Number of individuals per unit area.
 - Clumped: _____
 - Random: _____
 - Uniform: _____
- **Exponential Growth (J curve):** population increases rapidly very quickly only after a few generations



- **Logistic Growth (S curve):** starts as _____ growth with limiting factors and _____ (due to carrying capacity)
- **Carrying Capacity** is the _____ number of individuals an environment and its resources can support



- **Limiting Factors** control the _____ of a population
 - Available resources (food, space, mates)
 - Competition, predation, parasitism, disease
 - Natural disasters, unusual weather
 - Environmental changes (ex. drought)
 - Other species
 - Predators, prey, competitors
 - Lynx and snowshoe hare example

STUDY QUESTIONS:NOTES:**Human Population Explosion**

- **Three Factors**
 - Fertility, Infant Mortality, Longevity
- **Animal Domestication and Agriculture**
 - Provided for a few to feed many
- **Industrial Revolution**
 - Growth of Cities and Infrastructure
 - Water, Energy, Transportation
 - Increased Productivity, Nutrition, Sanitation, Medicine

Human Influences on the Environment

- Limited Resources
 - Land, food, water
- Agriculture
- Industries
- Ecosystem Goods (Renewable, Nonrenewable)
- Desertification & Deforestation
- Water pollution
- Biological magnification
- Air pollution
- Acid rain
- Habitat Fragmentation
- Introduced Species

SUMMARY: