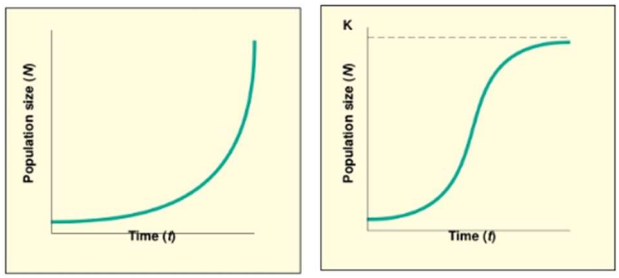
OPHS Biology Name: _____

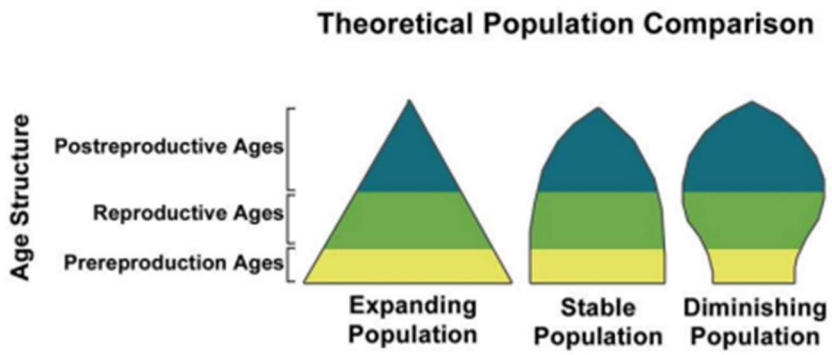
Unit 9 Topic Reviews

TOPIC 2: Population Ecology (logistic/exponential, limiting factors, human pop. growth)

1. Limiting factors are: **factors that influence the size of a population (can be density-dependent or density-independent).**
2. Limiting factors (do/**do not**) play a role in exponential growth. For this reason, growth is described as being **uncontrolled/uninhibited.**
3. A **J**-curve is used to represent exponential growth. Sketch a graph illustrating this growth curve. Next to it, sketch and label a logistic growth curve.



4. A **S**-curve is used to represent logistic growth, where limiting factors (**do**/do not) play a role.
5. Define density-dependent factors and provide one example: **The size/density of the population does matter for these factors (the # of individuals in the population matters); food, disease, space are examples**
6. Define density-independent factors and provide one example: **The size/density of the population does not matter, these factors will impact that population regardless of size; natural disasters are examples**
7. Provide useful measurements for calculating/measuring human population: **natality and mortality rates (birth and death); immigration and emigration**
8. How is immigration different from emigration? **Immigration is entering INTO a population; emigration is EXITING a population**
9. What does an age structure pyramid show us? **The breakdown of the population by age and male v female**
10. Compare the provided age structure pyramids for the following nations (do on own):



← You can use this to help you with your comparisons!