Angeles City Science High School

Science 10

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Activity 3: Biodiversity Difference Chart!

Objective: To distinguish a term from another.
Direction: Fill in the differences of the terms in the chart below.

Density-dependent limiting factor	**Density-independent limiting factor**
If factors such as competition for food, natural resources, predation, and things that is required to survive is affected by how many or the population of a species. When the population grows, the needs for survival also grows.	When factors needed to survive in a group don't affect the population of species. An example of this is fish, the amount of water doesn't affect their population growth.
Logistic population growth	**Exponential population growth**
Logistic population growth is when the population size/growth time can reach it's limit over time or what we call carrying capacity.	This type of population growth does not have a carrying capacity. This means that there is no limit in the population size/growth over time.

Guide Questions:
1. The human population is growing at an exponential rate. Since you have learned that population cannot grow infinitely, what do you think will happen if the human population reaches it's capacity?

Even though our species is consider as exponential population growth, It is noted that the natural resources available for us in becoming more scarce over time. If scientist couldn't find a way to make renewable counterparts to those that we use in nature such as coal, then it's very much possible that all of us would be transported in mars or another planet.