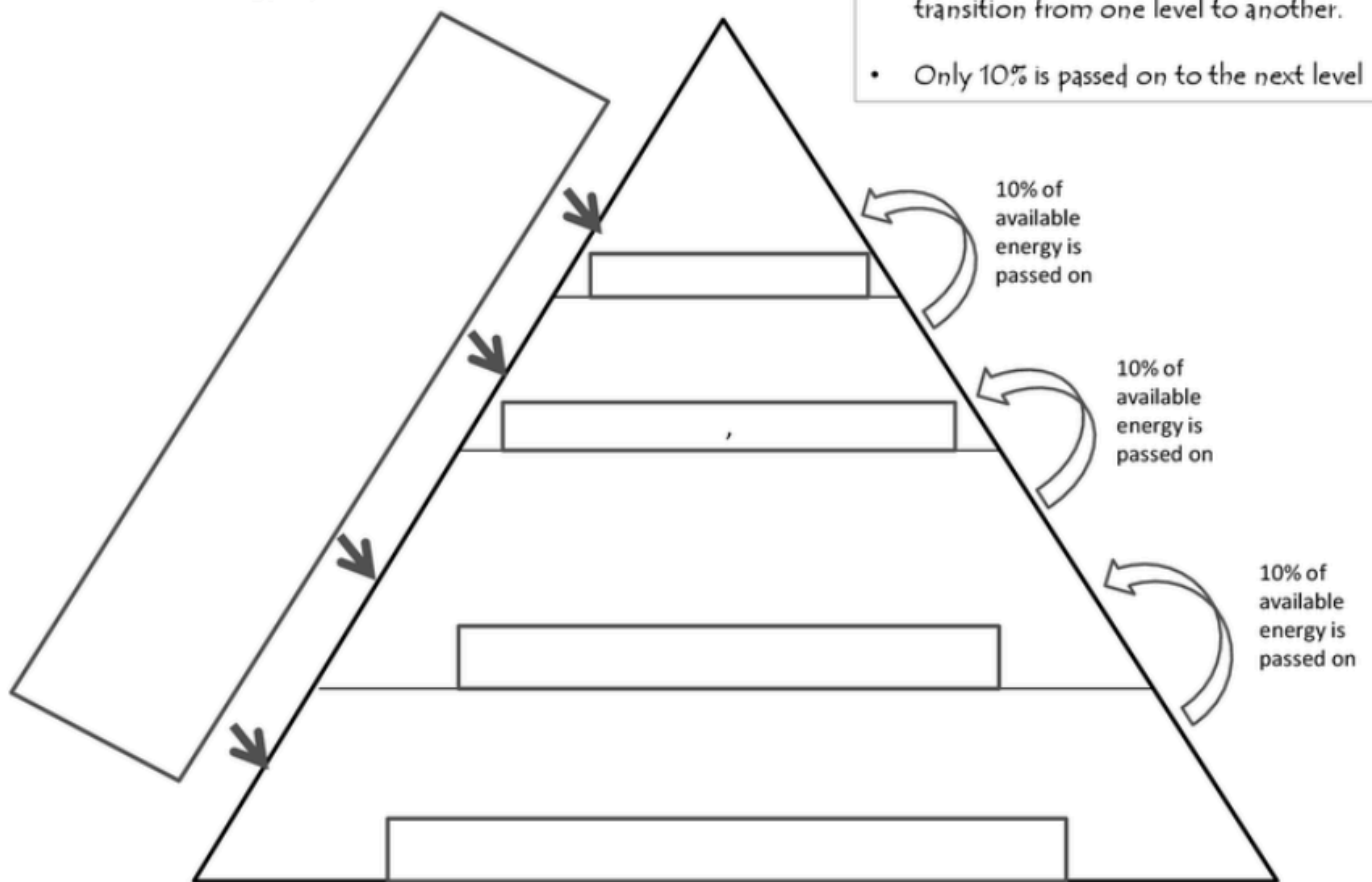


Ecology Notes

- Food Webs and Ecosystem Interaction

Food Web Energy Pyramid



- Biotic and Abiotic Factors

Biotic means _____

Examples of biotic factors: _____

Abiotic means _____

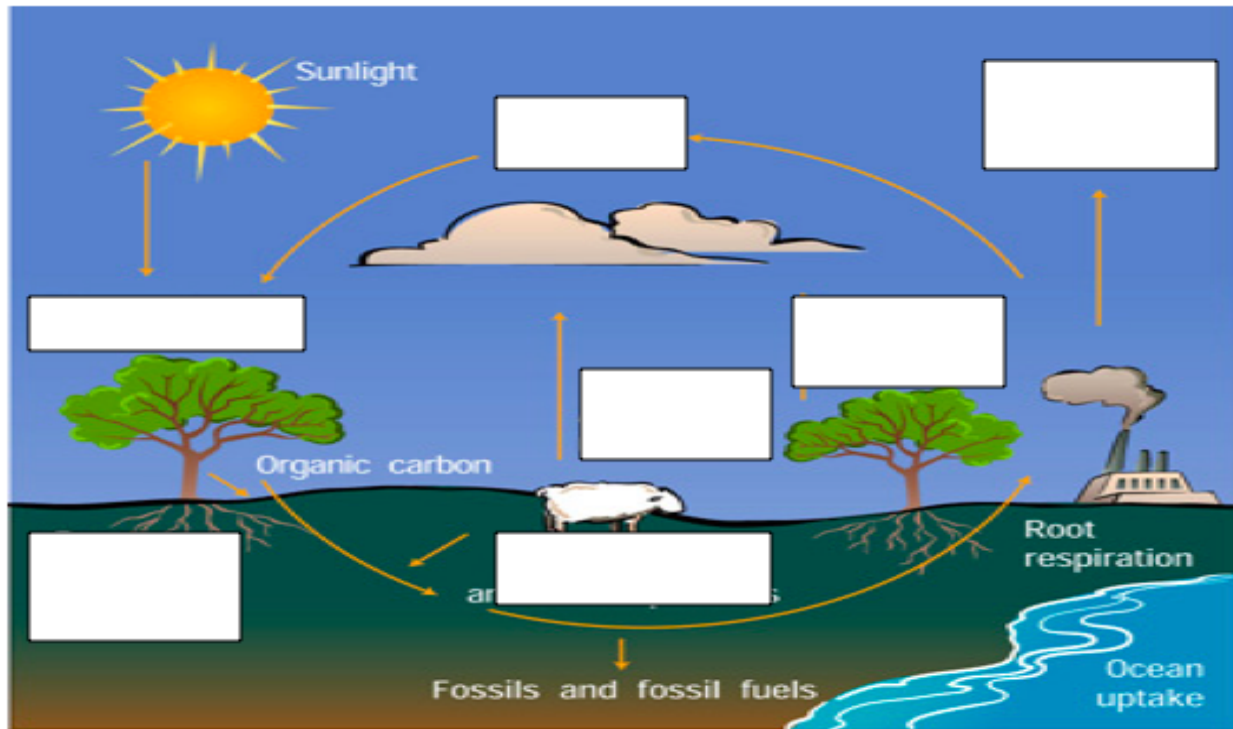
Examples of abiotic factors: _____

Give an example of how a biotic factor can affect an abiotic factor in a forest ecosystem: _____

Give an example of how an abiotic factor can affect a biotic factor in a forest ecosystem: _____

- The Carbon Cycle

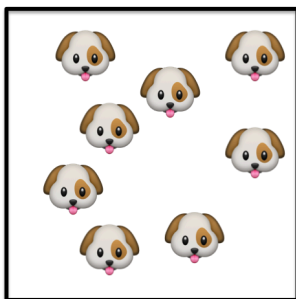
Label the diagram below with the following terms: carbon dioxide, plant respiration, animals respiration, photosynthesis, emissions by cars and factories, decomposition, carbon stored in organisms



- Population Density and Models

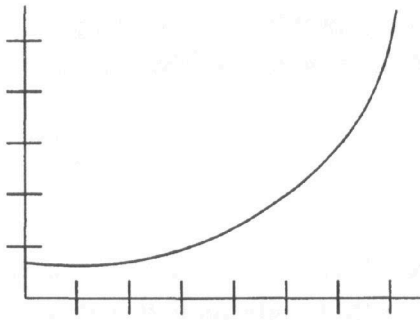
Population density is _____

Calculate the population density of the puppies in the square below if each side of the square is 2 km long:

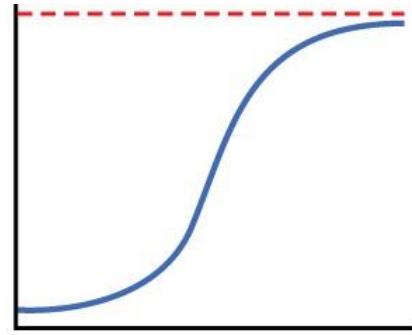


What is the population density of America if there are 324 million people and the country covers 3.8 million square miles?

Label the graphs below with the following terms: exponential growth, logistic growth, carrying capacity, time, population size



• Limiting



Factors

Limiting factors are _____

Density-dependent means

Density-independent means

Label each of the following limiting factors as density dependent (DD) or density independent (DI) and as biotic (B) or abiotic (A):

Disease

Natural Disasters

Availability of food

Seasonal Changes

Weather

Predation

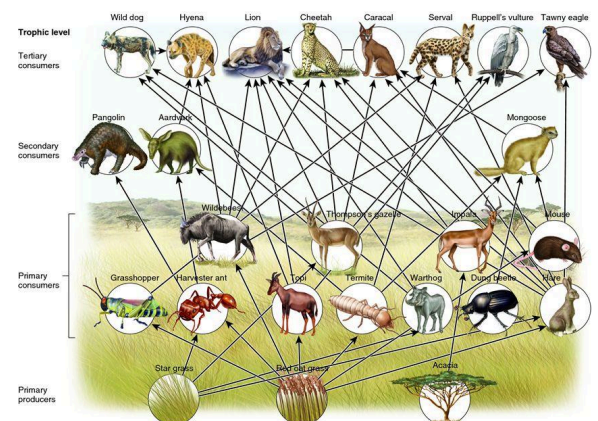
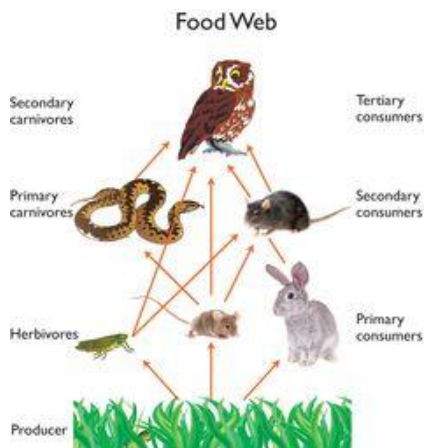
Competition

Space

When the amount of carbon dioxide in the atmosphere increases, the temperature (increases/decreases). When the temperature increases, the amount of plants (increases/decreases). When the amount of plants increases, the amount of carbon dioxide in the atmosphere (increases/decreases).

• Biodiversity

Which of the ecosystems below would be more stable? Why?

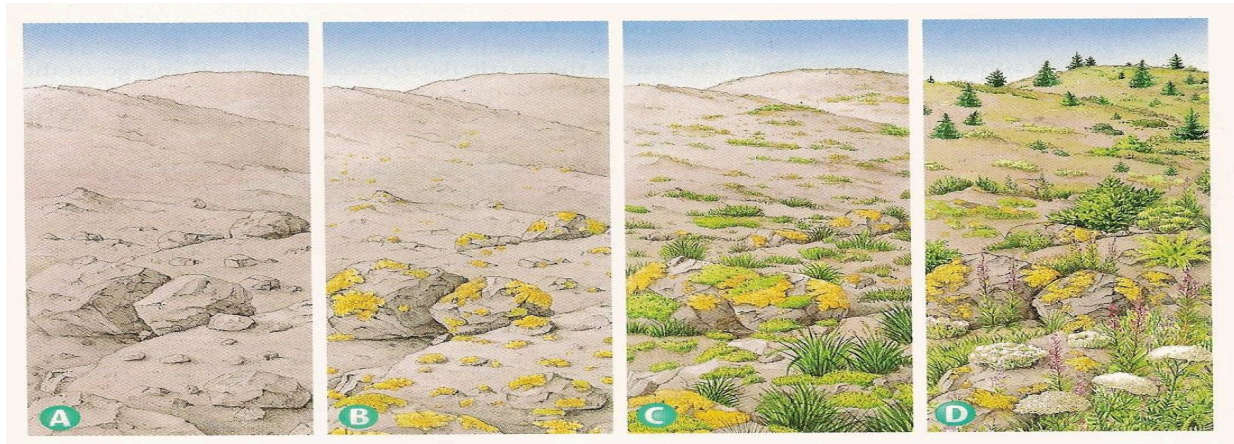


- Succession

Succession is the process of creating a new ecosystem where one did not previously exist.

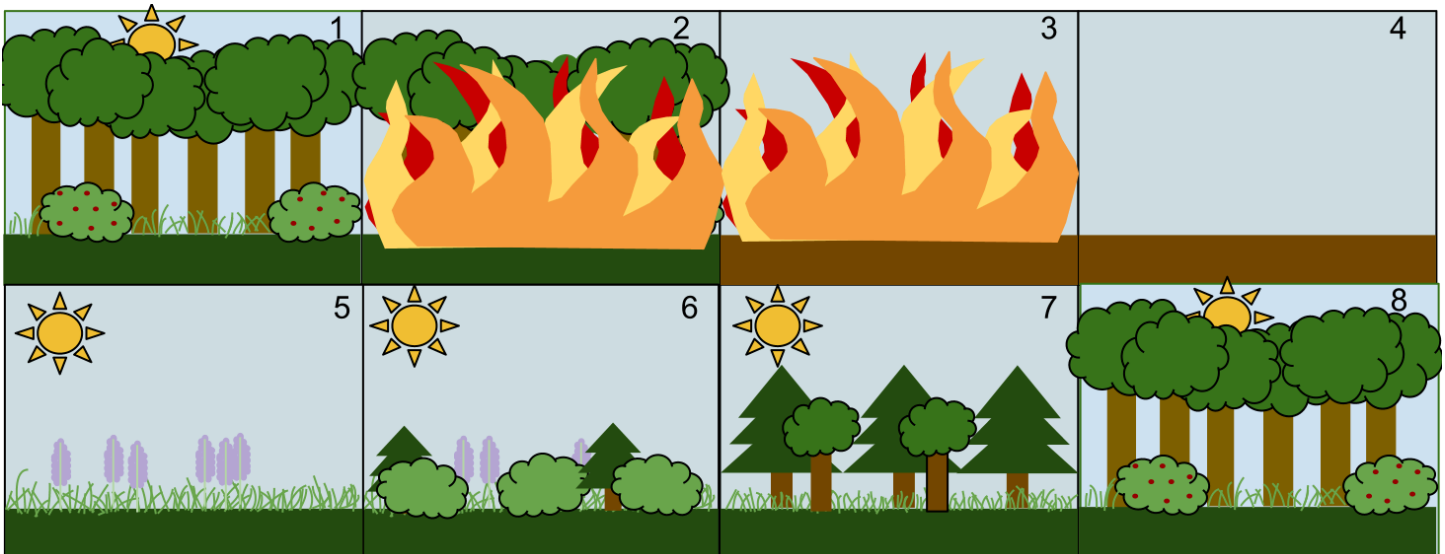
Primary succession occurs when _____

What is happening in each image? Use and underline the terms climax community and pioneer species



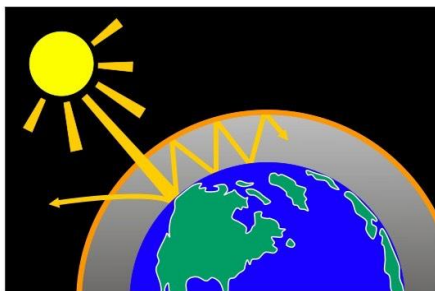
Secondary succession occurs when _____

What is happening in each image? Use and underline the terms climax community and disturbance.

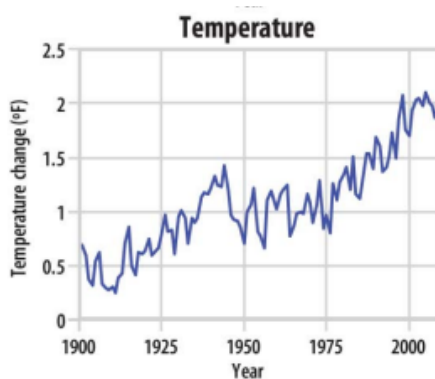
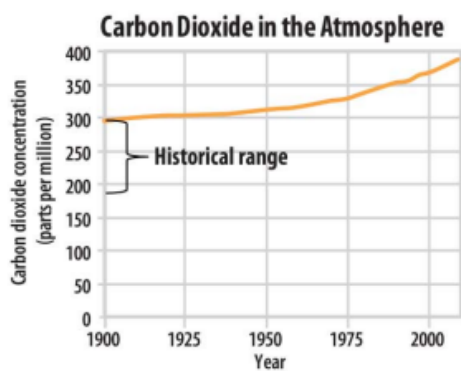


- The Greenhouse Effect

Use the diagram below to explain the greenhouse effect and how it impacts the Earth's temperature



Use the graphs below to explain the relationship between greenhouse gases and global climate



Human Impact

Impact	What is it?	Where is it happening?	What is the effect?
Deforestation			
Invasive Species			
Pollution			
Overharvesting of Species			