

THE EVOLVING ECOLOFE

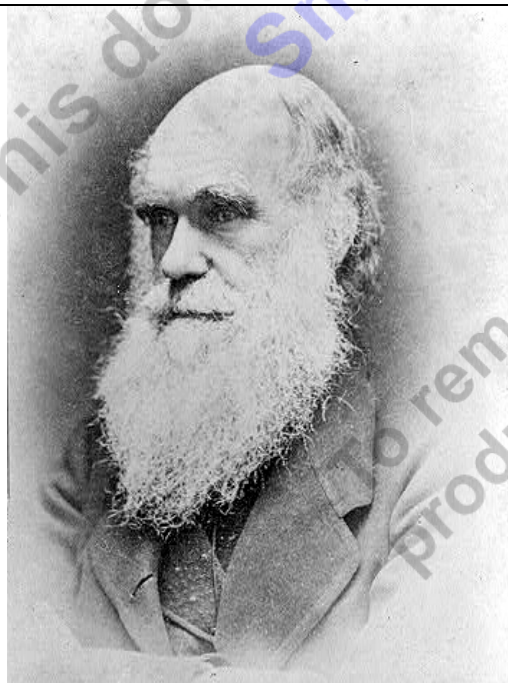
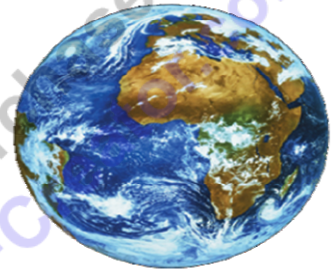
(Opportunity For Excellence)

Name:

Due:

EVERYTHING IS CHANGING

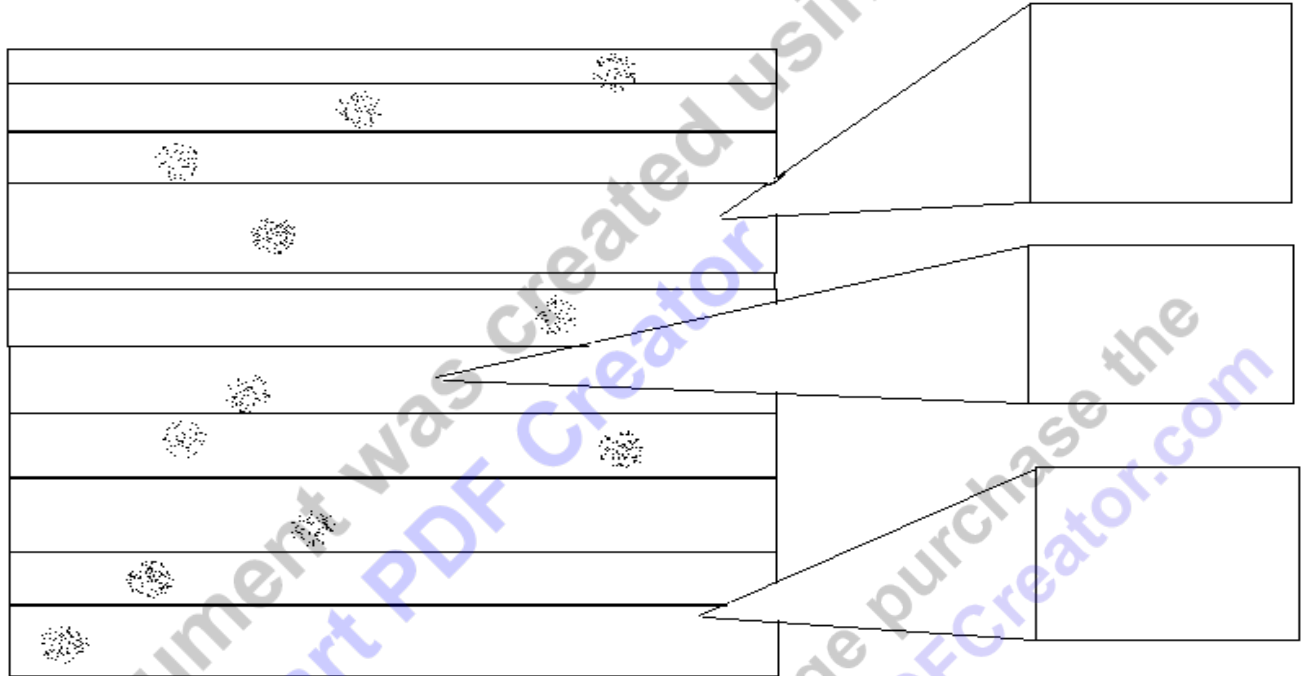
Evolution in its simplest form is change over time. How much time have organisms had to change?



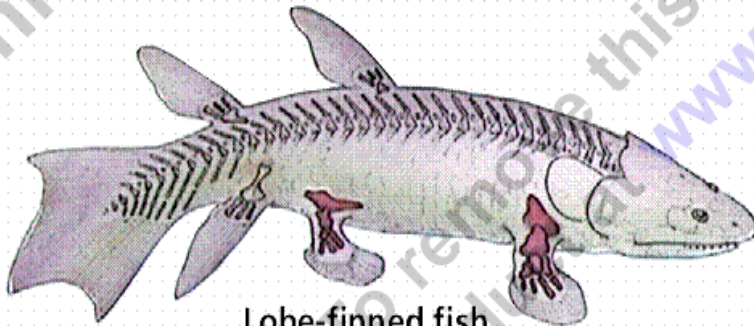
Please describe some of the history associated with evolution and the persons associated with this science theory.

Which rock layer is the oldest and which is the youngest, Label them below?

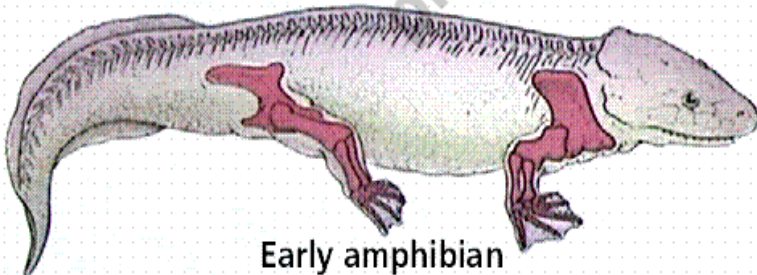
Please describe using pictures how changes in the fossil record and relative dating can be used as an evidence of evolution. Remember the "Principle of Superposition."



Is there any connection between lobe-finned fish and early amphibian fossils? Please describe these connections in detail in the space below.

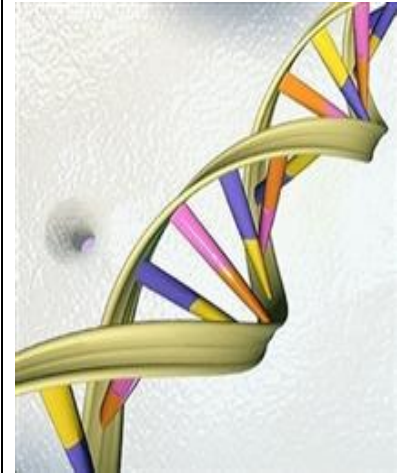


Lobe-finned fish



Early amphibian

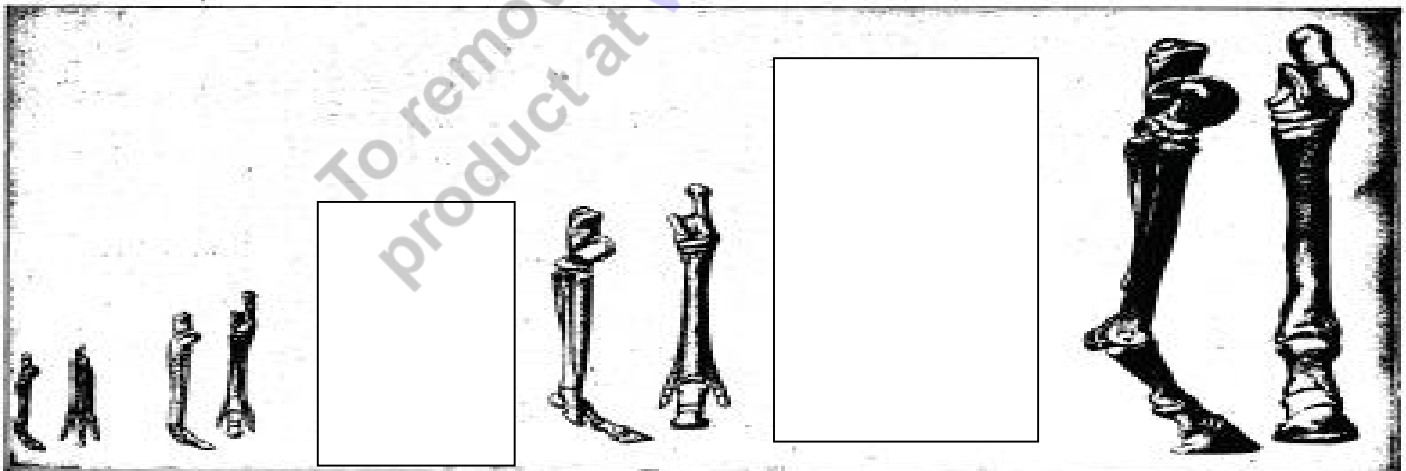
What is the picture on the right? Why is this important to understanding evolution?



Why do whales have leg bones?



What changes do you see in bones of these different horse species over the last several millions years. Sketch in what the missing fossils may look like.



Please complete the diagram below so it represents how living things that are on the earth today share a common ancestor. **Please make references to extinctions.** What words are hidden in the boxes?



Write a really good description of why giraffes have long necks?

Write a really bad description of why giraffes have long necks.

Please describe the five parts to natural selection discussed in class in the space below. **Use the picture to describe each specifically.** Don't just list the five mechanisms but relate them to the African Grassland Ecosystem. Spelling of Wildebeest, Lions are on the prowl!



_____ + _____ + _____ = Natural Selection.

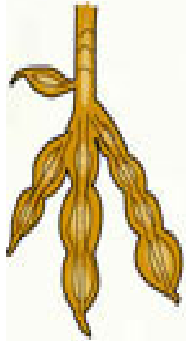
Summarize how a new species may be formed in divergent evolution? Remember the Hypothesis.

Please describe how this picture represents convergent evolution.

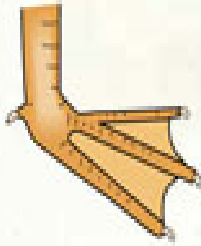


Choose at least six types of bird feet from the pictures below to describe how this type of feet allows the bird to be successful at....? Describe why it is an adaptation.

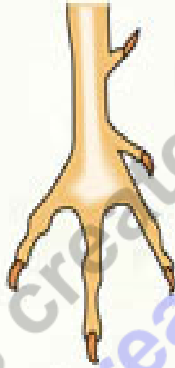
BIRD FEET



coot



mallard



hawk



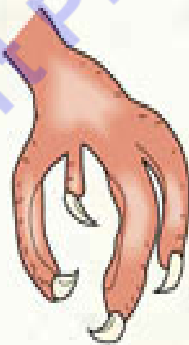
wood pecker



grouse



ostrich



parrot



jacana

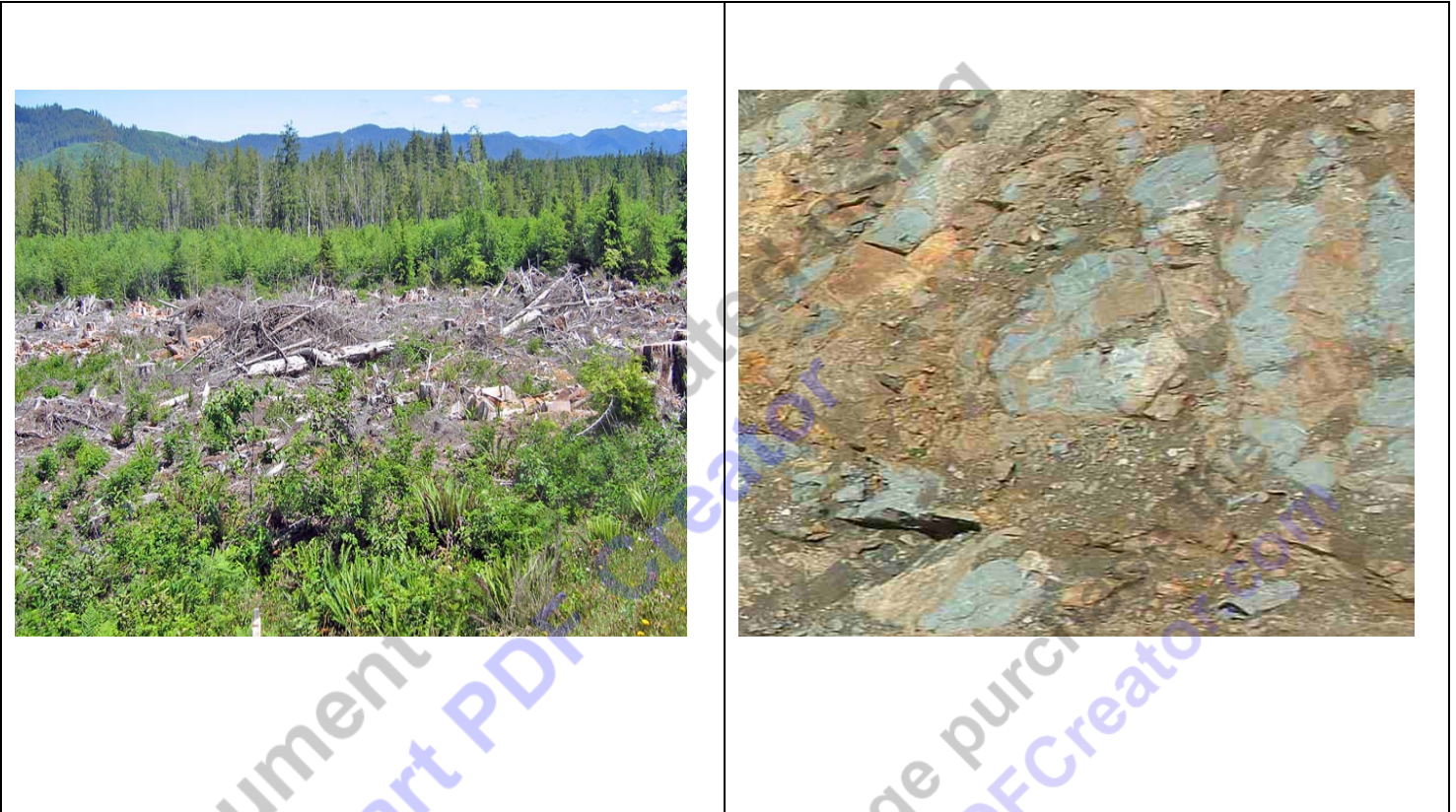


crow

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What is the essence of ecological succession? Each species does what to itself? _____



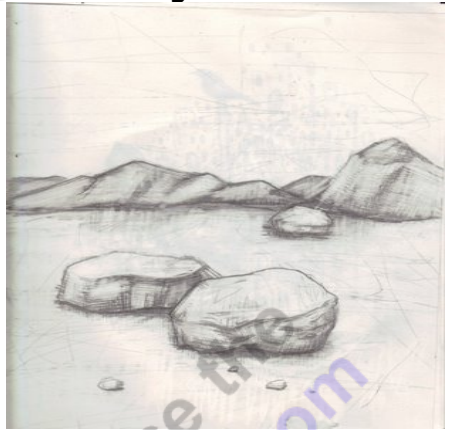


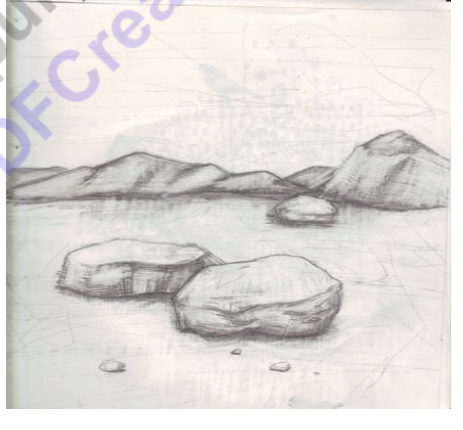
Which picture represents primary succession and which picture represents secondary succession?



Why does it take longer for trees to grow when starting from primary succession? _____

Why does growth tend to occur faster during secondary succession? _____

Please sketch in plants and animals to show 200 years of ecological succession in six pictures spread out over time. Provide with text some of the plant species represented in your drawings in the space below each box.

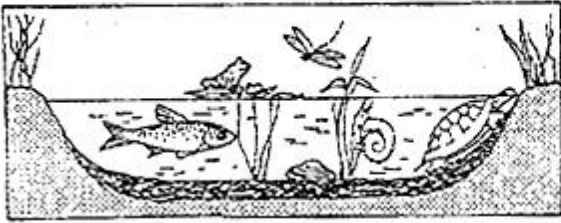
<p>The early stages</p> 	<p>Early Middle</p> 	<p>Middle Stages</p> 
<p>Late Middle Stages</p> 	<p>Late Stages</p> 	<p>Climax Community</p> 

Describe some events that will turn this climax community back to the beginning of secondary succession.

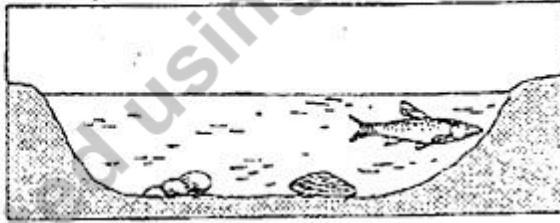


Describe the order of the pond ages from youngest to oldest based on aquatic ecological succession. Why did you put them in the order that you did?

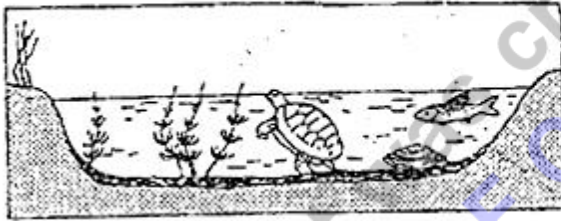
Pond A



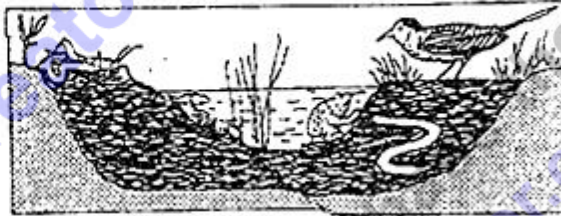
Pond B



Pond C



Pond D



Youngest _____, Next oldest _____, Next oldest _____, The Oldest _____

Why did you put them in that order? _____

NICE WORK! THIS WAS A DIFFICULT OFE. DO NOT LOSE! PUT IN YOUR SCIENCE FOLDER!