

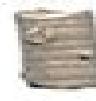
Activity 3

Activity Title: Evidence of Evolution

Learning Objectives: 1. Describe how fossil records, comparative anatomy, embryologic development, and genetic information provide evidence for evolution

Part A: Where Do I Belong?

1. Which is assumed to be the oldest organism? Why do you think so? What is the probable age of the fossil?
2. In what era can you possibly find the most recent fossil? Why do you say so?
3. Do you think there are organisms that lived during the Cambrian Period? Explain your answer.
4. When do you think did the present-day humans first appeared on earth?
5. Describe how organisms are arranged in the table.

	An invertebrate, it lived in a shallow marine environment during Ordovician and Silurian periods.
	Crinoids look like plants but are actually animals related to our modern day starfish. They belong to Phylum Echinodermata and lived during the Triassic Period.
	Dinosaurs or giant reptiles ruled the earth during the Jurassic Period under Mesozoic Era.
	This fossilized leaf is once part of an early vascular plant during the Carboniferous Period.

Page 305

Era	Period	Organism
Cenozoic	Recent	
	Quaternary	
	Tertiary	
Mesozoic	Cretaceous	
	Jurassic	Dinosaurs
	Triassic	Crinoids
Paleozoic	Permian	
	Carboniferous	Vascular Plants
	Devonian	
	Silurian	Trilobites
	Ordovician	Trilobites
	Cambrian	

Source: Images of trilobite and crinoid stem taken from The Virtual Petrified Wood Museum
Page 310

Part B: Analogous! Homologous!

Write in the space provided H if the structures below are homologous and A if they are analogous.

6. Can you say that human, whale and bat might belong to a common ancestral group? Explain why.

Structure	Classification
	
	
	
	
	
	
	
	

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M Tight

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Chapter Resource 13 Theory/Evolution Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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