

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.









	<p>Trilobite</p> <p>An invertebrate, it lived in a shallow marine environment during Ordovician and Silurian periods.</p>	<p>Era</p> <p>Cenozoic</p>	<p>Period</p> <p>Recent</p>	<p>Organism</p>
			Quaternary	
			Tertiary	
	<p>Crinoid Stem</p> <p>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.</p>	<p>Mesozoic</p>	<p>Cretaceous</p>	
			Jurassic	Dinosaurs
			Triassic	Crinoids
	<p>Dinosaur bone</p> <p>Dinosaurs or giant reptiles ruled the earth during the Jurassic Period under Mesozoic Era.</p>	<p>Paleozoic</p>	<p>Permian</p>	
			Carboniferous	Vascular Plants
			Devonian	
	<p>Vascular Plant</p> <p>This fossilized leaf is once part of an early vascular plant during the Carboniferous Period.</p>		<p>Silurian</p>	Trilobites
			<p>Ordovician</p>	Trilobites
			<p>Cambrian</p>	

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

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
 Human arm	 Whale flipper	
 Human arm	 Alligator forelimb	
 Bat wing	 Butterfly wing	
 Bird wing	 Butterfly wing	

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M Tight



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