

## Chapter 15: Evidence for Evolution – Study Guide

*A Fish with Fingers? A transitional fossil fills a gap in our knowledge of evolution*

### TYPE IN YOUR ANSWERS USING A DIFFERENT COLOR!

**37 points possible converted to 100 point scale in Launchpad**

**Complete and submit via Ch. 15 Dropbox**

#### Define: 11 points

[VERTEBRATE] an animal with a bony or cartilaginous backbone

[DESCENT WITH MODIFICATION] Darwin's term for evolution, combining the ideas that all living things are related and that organisms have changed over time

[FOSSILS] the preserved remains or impressions of once-living organisms

[FOSSIL RECORD] an assemblage of fossils arranged in order of age, providing evidence of changes in species over time

[PALEONTOLOGIST] a scientist who studies ancient life by examining the fossil record

[RADIOMETRIC DATING] the use of radioactive isotopes as a measure for determining the age of a rock or fossil

[RELATIVE DATING] determining the age of a fossil from its position relative to layers of rock or fossils of known age

[INVERTEBRATE] an animal without a backbone

[TETRAPOD] animal with four true limbs that is jointed, bony appendages with digits

[HOMOLOGY] anatomical, genetic, or a developmental similarity among organisms due to common ancestry

[VESTIGIAL STRUCTURE] structures inherited from an ancestor that no longer serves a clear function in the organism that possesses it

#### Answer In A Different Color or by hand. 18 points

1. Explain the likely process of fossilization for each of these organisms: (3)
  - a. Mosquito:  
Since the mosquito does not have a hard body it would probably be buried in amber.
  - b. Lizard:  
A lizard has hard, bony parts so it would probably be fossilized by mineralization.
  - c. Hermit crab:  
Since a hermit crab has a shell it would probably leave an imprint or mold in the mud that then hardens.
2. Describe the steps (conditions) that will prevent fossilization. Which is more likely, the conditions allowing fossilization or those that prevent it? Explain. (3) If the organism is eaten or broken down by aerobic microbes, bacteria, or water no fossil will form. It is more likely for a fossil to not form because the conditions have to be perfect for a fossil to form.
3. Why do paleontologists think that modern-day horses arose from a four-toed ancestor? (1) The fossils show a series of changes in bone structure and the closer to fossils get to us time wise, the more it resembles our modern horse.
4. Compare and contrast relative and radiometric dating by filling in the table: (3)

	Relative dating (yes/no)	Radiometric dating (yes/no)
Can arrange fossils in the correct sequence from oldest to youngest	YES	YES
Can provide an estimate of	NO	YES

# Chapter 15 Evolution Study Guide

**J Spring**



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