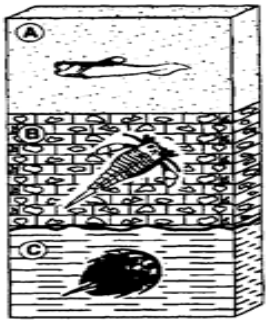
Review- Evolution

Evolution – what do you know?

Evidence for Evolution: Match the type of evidence to its description.

WORD BANK: ***Biogeography, Embryology, Anatomy, DNA Comparison***

1. _____ Different organisms share **similar structures** that have very different functions, or have remnants of structures/organs that had a function in the past.
2._____ In DNA sequencing, the more closely related two organisms are, the more similar their DNA.
3._____ During the early stages of life, **embryos** of very different organisms appear to be very similar. As they continue to develop, they become increasingly different.
4._____ Different habitats favor different traits and can establish separate populations that have a common ancestor.



5. Using the diagram to the right, which of the following fossils layers is the oldest? _____

6. How do you know? _____

Matching *On the line provided, write the letter of the definition that best matches each term on the left.*

_____	1. evolution	a. change over time
_____	2. fossil	b. differences among individuals within a species
_____	3. natural variation	c. the preserved remains of an ancient organism
_____	4. struggle for existence	d. survival of the fittest
_____	5. fitness	e. all species are derived from common ancestors
_____	6. adaptation	f. structures that develop from the same embryonic tissues, but have different mature forms
_____	7. natural selection	g. the ability of an individual to survive and reproduce in a specific environment
_____	8. common descent	h. organs with little or no function
_____	9. homologous structure	i. competition for food, space, and other resources among members of a species
_____	10. vestigial organ	j. inherited characteristic that increases an organism's chance of survival

Describe how evidence from the following fields of research support the theory of evolution:

7. Fossil record _____

8. Comparative embryology_____

9. Comparative biochemistry (DNA)_____

10. Comparative anatomy_____

11. Compare and contrast Genetic Drift and Gene Flow: