

# BIOLOGY STAAR

*review booklet*

**B.7 The student knows evolutionary theory is a scientific explanation for the unity and diversity of life.**

2 VERSIONS AVAILABLE

**1. EVIDENCE FOR BIOLOGICAL EVOLUTION: HOMOLOGY**

Homology is the similarity between structures in different species that are the result of common ancestry. Homologous structures are similar in structure, function, and development.

**2. Evidence for Evolution: New Fossils Found**

- Homologous structures are found in the following groups in a line of their names:
- Fins, lungs, heart, kidneys, liver, brain, eyes, etc.
- Homologous structures are found in different species in different groups.
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**3. Evidence for Evolution: Organisms Change Over Time**

The diagram at left represents the evolution of the horse from 50 million years ago to the present.

- Based on the information, the common ancestor of this lineage of horses and that of the horse was:
- Show the evolution of the modern day horse (constant or rapid changes in a gradual change):
- What is the relationship between the development of the horse's other legs of body they are found in comparison?

**4. Biogeography Class**

Biogeography is used to study how and why plants and animals live where they do. The distribution of species over geographies are usually divided into three groups and the distribution of isolated species (usually isolated species) are usually found in areas preventing the two isolated areas from interbreeding, the isolated groups are found:

Islands, Rivers, Deserts, Mountains, Oceans, Landmasses, etc.

1. CORAL Reporting Categories 3- BIOLOGICAL EVALUATION & COMMUNICATION		2. Other Incident-Related Information: Reporting is to determine information from the party and determine the risk.											
<p>1.1. Biologically Relevant Structures</p> 		<p>1.2. Critical Anatomical Structures</p> <p>_____</p> <p>_____</p>											
<p>1.3. Biologically Relevant Pathway Information: What are the following: What are more symptoms suggest that the symptoms relate to _____</p>		<p>1.4. The common symptom of humans, dogs, cattle, and others most likely had _____ (list symptoms)</p>											
<p>1.5. Molecular Evidence for Evolution: Effect and Source</p> <p>What happened to animals prior to symptoms? By comparing genome or genetic code, scientists can determine what exactly changed from normal organisms. What does closely related DNA to normal organisms tell, the more recent their common ancestor?</p> <table border="1" data-bbox="374 1100 593 1189"> <thead> <tr> <th>Species</th> <th>Genetic Code Differences compared to Normal Organisms</th> </tr> </thead> <tbody> <tr> <td>Microorganisms</td> <td>0.0</td> </tr> <tr> <td>Humans</td> <td>0.0</td> </tr> <tr> <td>Monkeys</td> <td>0.1</td> </tr> <tr> <td>Chimpanzees</td> <td>0.0</td> </tr> </tbody> </table> <p>What about an adult compared to the young and sequence of life cycle compared to the young and sequence of life cycle of other animals. Consideration is to the DNA found in blood.</p> <p>Q. If the same adult sequence is similar among most organisms of importance, what does this suggest about the shared DNA component?</p>				Species	Genetic Code Differences compared to Normal Organisms	Microorganisms	0.0	Humans	0.0	Monkeys	0.1	Chimpanzees	0.0
Species	Genetic Code Differences compared to Normal Organisms												
Microorganisms	0.0												
Humans	0.0												
Monkeys	0.1												
Chimpanzees	0.0												
<p>1.6. According to the chart, which organisms would you expect that humans share the most recent common ancestor with and why?</p>													
<p>1.7. Biogeography (Distribution): Q. For what reasons, besides the ones just mentioned, provide evidence of common descent?</p>													
<p>Reproduction</p>		<p>Mating/sexual position</p>											
													
													

19. STAM Reporting Category 3<sup>rd</sup>  
BIOLOGICAL EVOLUTION & CLASSIFICATION

19. P. 100 discussion prompts: expression of adaptive responses and issues in the fossil record

1. Classify these two fossil records: the power of evolution





A.  B.

21. In the spaces below, label the diagrams A and B as either unconformable or regressive in response to the evolution of the organisms represented in the fossil record.

22. In the diagram above, the oldest fossils would be found on the \_\_\_\_\_ older layer, and the newest fossils would be found on the \_\_\_\_\_ older layer.

23. Changes that are slow and steady over a long period of time have descriptive terms (e.g. gradualism, uniformitarianism).

24. Each fossil in the diagram above represents a transitional form as new species evolved. Which diagram would best support the result of gradualism and why?

\_\_\_\_\_

25. Offer an explanation as to why stronger adaptive responses might occur in the fossil record.

\_\_\_\_\_

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# 2013 Biology Staar Answer Key

**Ken Collier, Steven Galatas, Julie  
Harrelson-Stephens**

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