**Biology STAAR Review Stations**

**Day 6**

**Category # 3 Biological Evolution and Classification (7.A, 7.B, 7.C, 7.D)**

7.A analyze and evaluate how evidence of common ancestry among groups is provided by the fossil record biogeography, and homologies, including anatomical, molecular, and developmental

7.B analyze and evaluate scientific explanations concerning any data of sudden appearance, stasis, and sequential nature of groups in the fossil record

7.C analyze and evaluate how natural selection produces change in populations, not individuals

7.D analyze and evaluate how the elements of natural selection, including inherited variation, the potential of a population to produce more offspring than can survive, and a finite supply of environmental resources, result in differential reproductive success

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|  | **7.A** | **7.B** | **7.C** | **7.D** |
| **Interactive Quizzes** | **Analogous Structure Overview**  [**http://www.ck12.org/biology/Evidence-for-Evolution/enrichment/Evidence-for-Evolution-Example-3/r1/**](http://www.ck12.org/biology/Evidence-for-Evolution/enrichment/Evidence-for-Evolution-Example-3/r1/)  **Natural Selection Overview**  [**http://evolution.berkeley.edu/evosite/evo101/IIIENaturalSelection.shtml**](http://evolution.berkeley.edu/evosite/evo101/IIIENaturalSelection.shtml) | **Rock and Fossil Record**  <http://www.proprofs.com/quiz-school/story.php?title=rock-fossil-record-vocab-quiz> | **Visualizing Natural Selection**  <http://glencoe.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::550::400::/sites/dl/free/0078802849/383925/CH15_Natural_Selection.swf::Visualizing%20Natural%20Selection> | [**Gradualism & Punctuated Equilibrium**](http://glencoe.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::550::400::/sites/dl/free/0078802849/383939/gradualism_Punctuated_Equilibrium.swf::) **Simulation**  <http://glencoe.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::550::400::/sites/dl/free/0078802849/383939/gradualism_Punctuated_Equilibrium.swf>:: |
| **Graphic Organizer** | **Evolution Graphic Organizer**  <http://www.biologycorner.com/worksheets/evolution_concept.html> | | **Natural Selection Graphic Organizer**  **See handout** | |
| **Virtual Labs** | **Exploring Evolution Lab**  **http://www2.edc.org/weblabs/exploringevolution/evolution.swf** | **Getting Into Fossil Record**  [**http://www.ucmp.berkeley.edu/education/explorations/tours/fossil/9to12/Page2c.html**](http://www.ucmp.berkeley.edu/education/explorations/tours/fossil/9to12/Page2c.html) | **Basic Principles of Natural Selection Interactive Table**  <http://glencoe.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::550::400::/sites/dl/free/0078802849/383912/table15_1.swf::Basic%20Principles%20of%20Natural%20Selection>  . | **How Can Natural Selection Be Modeled?**  **http://www.glencoe.com/sites/common\_assets/science/virtual\_labs/LS06/LS06.html** |
| **Vocabulary** | **http://quizlet.com/20029412/evolution-flash-cards/** | | | |
| **Video Clips** | **Evidence of Common Ancestry**  <http://www.teachertube.com/viewVideo.php?video_id=270756>  **Evidence of Evolution Overview**  <http://www.ck12.org/biology/Evidence-for-Evolution/enrichment/Evidence-for-Evolution-Overview/r1/>  **Homologous Structure Overview**  [**http://www.ck12.org/biology/Evidence-for-Evolution/enrichment/Evidence-for-Evolution-Example-2/r1/**](http://www.ck12.org/biology/Evidence-for-Evolution/enrichment/Evidence-for-Evolution-Example-2/r1/) | **Evolution and the fossil record - Archaeopteryx, the missing link**  <http://www.bbc.co.uk/learningzone/clips/evolution-and-the-fossil-record-archaeopteryx-the-missing-link/5523.html> | **The Making of the Fittest: Natural Selection and Adaptation Video**  <http://www.hhmi.org/biointeractive/making-fittest-natural-selection-and-adaptation>  Guiding questions:  What caused the fur of pocket mice to change from light to dark?  Describe a mutation and when it occurs.  Describe how this model supports natural selection. | **Natural Selection and the Owl Butterfly**  [**https://www.khanacademy.org/science/biology/evolution-and-natural-selection/v/natural-selection-and-the-owl-butterfly**](https://www.khanacademy.org/science/biology/evolution-and-natural-selection/v/natural-selection-and-the-owl-butterfly) |

**Critical Thinking Questions**

**Write answers in your notebook!!!!!!!**

1. What is the difference between homologous and analogous structures?

2. What are some of the reasons for the differences between organisms?

3. What are some of the results of natural selection?

4. What are the different reasons species are successful today?

5. What are the effects of other evolutionary mechanisms on today’s species?

**7.C, 7.D Natural Selection Graphic Organizer**

