**Biology STAAR Review Stations**

**Day 7**

**Category # 3 Biological Evolution and Classification (7.E, 7.F, 7.G)**

7.E analyze and evaluate the relationship of natural selection to adaptation and to the development of diversity in and among species

7.F analyze and evaluate the effects of other evolutionary mechanisms, including genetic drift, gene flow, mutation, and recombination

7.G analyze and evaluate scientific explanations concerning the complexity of the cell

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|  | **7.E** | **7.F** | **7.G** |
| **Interactive Quizzes** | **Natural Selection Tutorial and Quiz**<http://bcs.whfreeman.com/thelifewire/content/chp23/2302001.html> | **The Evolution of Organisms**<http://nortonbooks.com/college/biology/animations/ch05a09.htm>Go through narration and take the quiz. Show results to the teacher. |
| **Graphic Organizers** | **Natural Selection Graphic Organizer**See handout | **Mechanisms of Evolution**<http://evolution.berkeley.edu/evosite/evo101/IIIMechanisms.shtml>Draw pictures of the following mechanisms of evolution:Descent Genetic VariationMechanisms of Change Natural SelectionGenetic Drift Coevolution | **Multicellular Life Graphic Organizer****See handout** |
| **Virtual Labs** | **How Can Natural Selection be Modeled?****http://www.glencoe.com/sites/common\_assets/science/virtual\_labs/LS06/LS06.html** | **Effects of Other Evolutionary Mechanisms**[**http://tinyurl.com/lqwrwvh**](http://tinyurl.com/lqwrwvh) | **Natural Selection: Fact or Fiction**[**http://www.discovery.com/tv-shows/curiosity/topics/natural-selection-quiz.htm**](http://www.discovery.com/tv-shows/curiosity/topics/natural-selection-quiz.htm) |
| **Vocabulary** | **Animal Adaptation Flashcards**http://quizlet.com/6108125/animal-adaptation-unit-flash-cards/ | **Evolutionary Mechanism Flashcards**<http://quizlet.com/43997765/bisc-120-evolutionary-mechanisms-flash-cards/> | **Cell Complexities Flashcards**<http://quizlet.com/52126577/evolutionary-mechanisms-and-cell-complexity-vocabulary-flash-cards/> |
| **Video Clips** | **Animal Adaptations**<http://www.youtube.com/watch?v=fRX2JtKFUzk> | **Mutations: The Potential Power of a Small Change**Watch the video clip at: <https://www.youtube.com/watch?v=GieZ3pk9YVo>Complete the video recap handout while you watch. <http://amoebasisters.weebly.com/uploads/2/1/9/0/21902384/video_recap_of_mutations_by_amoeba_sisters.pdf> | **The Endosymbiosis Theory: Evolution of Cells Video and Quiz**<http://education-portal.com/academy/lesson/the-endosymbiosis-theory-evolution-of-cells.html#lesson>Watch the video and complete the quiz. Show quiz results to the teacher. |

**7.E, 7.F, 7.G Critical Thinking Questions**

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

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

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

3. How does natural selection explain how organisms have changed over time?

4. Scientists believe that the eukaryotic cell is made of several other cell types. Discuss evidence of this theory.

5. Discuss explanations over the complexity of the cell

**7.E Natural Selection Graphic Organizer**



**7.F Mechanisms of Evolution Graphic Organizer**

Illustrate the following mechanisms of evolution:

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| --- | --- |
| **Descent** |  |
| **Mechanisms of Change** |  |
| **Genetic Variation** |  |
| **Genetic Drift**  |  |
| **Natural Selection** |  |
| **Coevolution** |  |

**7.G Multicellular Life Graphic Organizer**

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