**Mrs. Harrison’s Digital Learning Plan**

**Biology**

*3/16/2020 through 3/27/2020*

**Contact and Access**

**My Office Hours**

I’m holding office hours every weekday from 10:30am to noon. If you reach out to me during that window, you can expect a speedy reply. Please feel free to contact me outside that window, too! It may just take me a little longer to respond.

**Important Access Information**

* **USA Test Prep:** Use your school-created account.
  + Website: <https://www.usatestprep.com/login.php?next=%2Fmodules%2Faccount%2Fadmin.php>
  + Your username and password are both your ID number (your lunch number).
* **Schoology:** Go to [www.schoology.com](http://www.schoology.com)
* Scroll down to the Evolution folder, and that’s where you’ll find the content resources I’ve listed below.

**How to Reach Me**

* Email: iesha.harrison@cobbk12.org
* Remind: www.remind.com/join/bio804 ...or… Send a text to 81010 with this message: @bio804

**Educational Resources and Activities**

**Monday, 3/16/2020**

**Standard (SB6.a):** Construct an explanation of how new understandings of Earth’s history, the emergence of new species from pre-existing species, and our understanding of genetics have influenced our understanding of biology.

**Learning Target:** I can describe the evidence for the theory of evolution through natural selection.

**Educational Resources and Activities:**

1. Schoology: View the “Mechanisms of Evolution Video Lecture” (option 1 or 2) and complete the “Mechanisms of Evolution Notes Organizer.”
2. Schoology: By Friday, 3/20/20 complete the Evolution Check for Understanding Quiz

**Tuesday, 3/17/2020**

**Standard (SB6.a):** Construct an explanation of how new understandings of Earth’s history, the emergence of new species from pre-existing species, and our understanding of genetics have influenced our understanding of biology.

**Learning Target:** I can describe the evidence for the theory of evolution through natural selection.

**Educational Resources and Activities:**

1. Schoology: Read the “Evidence for Evolution Notes.”
2. USA Test Prep: After logging in, from your home screen, click on EOC at the top of the screen then click on Biology, then scroll down to Evolution. View the four videos under the “Evolution and the Understanding of Biology” topic.
3. USA Test Prep: Complete the Vocab Practice for the “Evolution and the Understanding of Biology” topic.

**Wednesday, 3/18/2020**

**Standard (SB6.a):** Construct an explanation of how new understandings of Earth’s history, the emergence of new species from pre-existing species, and our understanding of genetics have influenced our understanding of biology.

**Learning Target:** I can describe the evidence for the theory of evolution through natural selection.

**Educational Resources and Activities:**

1. USA Test Prep: After logging in, from your home screen, click on EOC at the top of the screen then click on Biology, then scroll down to Evolution. Complete one of the two Performance Tasks in the “Evolution and the Understanding of Biology” topic.
2. USA Test Prep: Complete one of the games in the “Evolution and the Understanding of Biology” topic.
3. USA Test Prep: Complete the “Evolution and the Understanding of Biology” crossword puzzle.

**Thursday, 3/19/2020**

**Standard (SB6.b):** Analyze and interpret data to explain patterns in biodiversity that result from speciation.**Learning Target:** I can use data and empirical evidence to justify the claim that speciation leads to greater biodiversity.

**Educational Resources and Activities:**

1. Schoology: Read the “Natural Selection Notes.”
2. USA Test Prep: After logging in, from your home screen, click on EOC at the top of the screen then click on Biology, then scroll down to Evolution, and view the two videos under the “Speciation” topic.
3. USA Test Prep: Complete the Vocab Practice for the “Speciation” topic.

**Friday, 3/20/2020**

**Standards (SB6.b):** Analyze and interpret data to explain patterns in biodiversity that result from speciation.

**Learning Target:** I can use data and empirical evidence to justify the claim that speciation leads to greater biodiversity.

**Educational Resources and Activities:**

1. USA Test Prep: After logging in, from your home screen, click on EOC at the top of the screen then click on Biology, then scroll down to Evolution, click on Speciation, Complete one of the two Performance Tasks in the “Speciation” topic.
2. USA Test Prep: Complete one of the games in the “Speciation” topic.
3. USA Test Prep: Complete the “Speciation” crossword puzzle.
4. Schoology: Make sure you have completed the Evolution Check for Understanding Quiz

**Monday 3/23/2020**

**Standards (SB6.c):** Construct an argument using valid and reliable sources to support the claim that evidence from comparative morphology (analogous vs. homologous structures), embryology, biochemistry (protein sequence) and genetics support the theory that all living organisms are related by way of common descent.

**Learning Target:** I can use evidence to argue that all living organisms evolved from common ancestors.

**Educational Resources and Activities:**

1. USA Test Prep: After logging in, from your home screen, click on EOC at the top of the screen then click on Biology, then scroll down to Evolution, click on Evidence of Common Descent, view the two “Evidence of Common Descent” videos.
2. USA Test Prep: Complete the Vocab Practice for the “Evidence of Common Descent” topic.
3. USA Test Prep: Complete one of the two Performance Tasks in the “Evidence of Common Descent” topic.
4. USA Test Prep: Complete one of the games in the “Evidence of Common Descent” topic.

**Tuesday 3/24/2020**

**Standards (SB6.d):** Develop and use mathematical models to support explanations of how undirected genetic changes in natural selection and genetic drift have led to changes in populations of organisms.

**Learning Target:** I can use graphs and the Hardy-Weinberg Principle to describe how natural selection and genetic drift affect populations and can lead to speciation.

**Educational Resources and Activities:**

1. Schoology: Go through the “Hardy Weinberg Equilibrium with additional slides” PowerPoint.
2. USA Test Prep: After logging in, from your home screen, click on EOC at the top of the screen then click on Biology, then scroll down to Evolution, click on Genetic Changes and Populations, View the three “Genetic Changes and Populations” videos.
3. USA Test Prep: Complete the Vocab Practice for the “Genetic Changes and Populations” topic.

**Wednesday 3/25/2020**

**Standards (SB6.d):** Develop and use mathematical models to support explanations of how undirected genetic changes in natural selection and genetic drift have led to changes in populations of organisms.

**Learning Target:** I can use graphs and the Hardy-Weinberg Principle to describe how natural selection and genetic drift affect populations and can lead to speciation.

**Educational Resources and Activities:**

1. USA Test Prep: Complete **two** of the four Performance Tasks in the “Genetic Changes and Populations” topic.
2. USA Test Prep: Complete one of the games in the “Genetic Changes and Populations” topic.

**Thursday 3/26/2020**

**Standards (SB6.e):** Develop a model to explain the role natural selection plays in causing biological resistance (e.g., pesticides, antibiotic resistance, and influenza vaccines)

**Learning Target:** I can use my understanding of natural selection to describe the process by which organisms develop resistance to harmful substances.

**Educational Resources and Activities:**

1. USA Test Prep: After logging in, from your home screen, click on EOC at the top of the screen then click on Biology, then scroll down to Evolution, click on Biological Resistance, View the one “Biological Resistance” video.
2. USA Test Prep: Complete the Vocab Practice for the “Biological Resistance” topic.
3. USA Test Prep: Complete one of the two Performance Tasks in the “Biological Resistance” topic.
4. USA Test Prep: Complete one of the games in the “Biological Resistance” topic.

**Friday, 3/27/2020**

**Test Day**

After logging in, from your home screen, click on EOC at the top of the screen then click on Biology, then scroll down to Evolution, click on Domain Test. Please complete the USA Test Prep test. (It may be called “Small Test.”)

**If you have any questions at all, please reach out to me!**