PHASE 2 INSTRUCTIONAL CONTINUITY PLAN

Beginning April 16, 2020

Biology 1
Biology 1 Honors

<u>TEXTBOOK CHECKOUT</u>: *Miller and Levine Biology*

SCHOOL NAME: _____

STUDENT NAME: _____

TEACHER NAME: _____

Biology

Topic: Ecology		
Lesson	**Assignment**	**Date Completed**
11: Introduction to Habitats and Niches	**Read** textbook Pages 174-181 in your textbook **Task 1**: Define the following terms: • habitat • tolerance • Niche • Keystone species • Symbiosis **Task 2:** Based on the reading answer the following statement: *Identify the three primary ways organisms depend on each other.* **Assessment:** Complete Lesson Review 6.1 on page 181, questions 1-6 **Biology 1 Honors: Complete the above work. In addition, complete the Case Study "Predator-Prey Dynamics" on page 179 questions 1-3**	
12: Succession	**Read t**extbook pages 182-185 in your textbook **Task 1:** Explain how communities change over time. **Task 2:** Using a specific example, explain how a community recovers after a disturbance. **Assessment:** Complete Lesson Review 6.2 on page 185, questions 1-5	
13: Biodiversity	**Read** pages 186-189 in your textbook **Task 1**: For the following terms explain how each impacts biodiversity: • Genetic diversity • Primary Producer • Resilience • Conservation **Task 2:** List some important ecosystem services	

	Assessment: Complete Lesson Review 6.3 on page 189, questions 1-5 **Biology 1 Honors: Complete the above work. In addition, explain how the introduction of invasive species can have a negative impact on biodiversity.**	
14: Case Study and Review	**Read** the case study on pages 173, and 190-191 in your textbook **Task 1:** Write a brief summary of the case study. **Task 2:** Draw a diagram that includes examples to represent the word *succession* **Assessment:** Complete assessment review questions on page 196 questions 1-7. **Biology 1 Honors**: **Complete the above work. In addition, complete question # 21 on page 197**.	
15: Humans and Global Change; Ecological Footprints	**Read** pages 202-205 in your textbook **Task 1:** Explain how an *ecological footprint* is calculated. **Task 2:** Review the graph, *The Great Acceleration* on page 204. Analyze and explain the trend after the year 1950 **Assessment:** Complete lesson review questions on page 205 questions 1-4. **Biology 1 Honors**: **Complete the above work. In addition, complete question 5 on page 205.**	
16: Cause and Effects of Global Change (part 1)	**Read** pages 206-212 in your textbook **Task 1:** Explain how human activities change the atmosphere and climate. **Task 2:** List 5 causes of global climate change. **Assessment:** Complete lesson review questions on page 217 questions 1-3.	

17: Cause and Effects of Global Change (part 2)	**Read** pages 213-217 in your textbook **Task 1:** What kind of pollutants are drivers of global change? **Task 2:** Explain what is meant by the term *habitat fragmentation*. **Assessment:** Complete lesson review questions on page 217 questions 4-7. **Biology 1 Honors**: **Complete the above work. In addition, complete the case study question 8 on page 217.**	
18: Measuring and responding to change	**Read** pages 218-222 in your textbook **Task 1:** What evidence supports the claims that the climate is changing? **Task 2:** What are some impacts of climate change? **Assessment:** Complete lesson review questions on page 222 questions 1-5. **Biology 1 Honors**: **Complete the above work. In addition, complete question 6 on page 222.**	
19: Sustainability	**Read** pages 223-225 in your textbook **Task 1:** What criteria can be used to evaluate whether development is sustainable? **Task 2:** What impact can an individual have on environmental systems? **Assessment:** Complete lesson review questions on page 225 questions 1-3.	
20: Case Study and Review	**Read** pages 201 and 226-227 in your textbook **Task 1:** Write a brief summary of the case study. **Task 2:** Explain why Southern Florida is particularly at risk of rising seas. **Assessment:** Complete lesson review questions on page 232 questions 1-6. **Biology 1 Honors**: **Complete the above work. In addition, complete questions 11-15 on page 232.**	

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21: Introduction to Animal Systems 1; Case Study	**Read** textbook Pages 838-839 in your textbook **Task 1**: How do you think the ecosystems of North America supported 60 million bison 200 years ago? **Task 2:** How do you think ecosystems of the US today support 60 million pigs? **Assessment:** What are the impacts of animal processes and human activity on the environment? **Biology 1 Honors: Complete the above work. In addition, write 3 things you hope to learn from this chapter.**	
22: Feeding and Digestion	**Read t**extbook pages 840-844 in your textbook **Task 1:** Explain how animals obtain food. **Task 2:** Explain how mouthparts are adapted to different diets. **Assessment:** Complete Lesson Review 25.1 on page 844, questions 1-4. **Biology 1 Honors**: **Complete the above work. In addition, answer question 5 on page 844.**	
23: Respiration	**Read** pages 845-848 in your textbook **Task 1**: What characteristics do the respiratory structures of all animals share? **Task 2:** How do aquatic animals breathe? **Assessment:** Complete Lesson Review 25.2 on page 848, questions 1-4. **Biology 1 Honors**: **Complete the above work. In addition, answer questions 5 and 6 on page 848.**	
24: Circulation	**Read** pages 849-852	

	Task 1: What are the different types of circulatory systems found in the reading? **Task 2:** In what way is the atrium of the heart like an atrium in a large building? **Assessment:** Complete Lesson Review 25.3 questions on page 852 questions 1-5	
25: Excretion	**Read** pages 853-857 in your textbook **Task 1:** Explain how ammonia is created in the bodies of animals. **Task 2:** List the organs in our body responsible for excretion of wastes **Assessment:** Complete lesson review questions on page 857 questions 1-4. **Biology 1 Honors: Complete the above work. In addition, complete questions 6 and 7 on page 857.**	
26: Case Study and Chapter Summary	**Read** pages 858-861 in your textbook **Task 1:** Write a brief summary of the case study you read though-out this chapter. **Task 2:** Propose a solution to the case study problem. **Assessment:** Write a summary or outline of this chapter utilizing the following terms: - Feeding and digestion - Respiration - Excretion - Circulation	

27 and 28: Design a Zoo Exhibit (This assessment covers two lessons)	**Read** pages 862-863 in your textbook **Task 1:** Choose one of the animals listed in the table on page 862 for your zoo design.	

	Task 2: In your own words, describe the problem that your design for a zoo exhibit should solve. **Assessment:** 1. Create a list of questions that would help you gather information to design the zoo exhibit. List at least three questions. 2. For the animal that you selected think about its natural habitat. Create a detailed drawing that would show your animal's exhibit. The drawing must include the following: • an enclosure for the animals • working stations or platforms for zoo visitors to observe the animals • descriptions of any unusual materials needed to construct the exhibit • a written explanation of the features of the exhibit and how they meet the needs of the animal you selected **Biology 1 Honors**: **Complete the above work. In addition, use evidence from the selection and the chapter to respond to a member of the community who thinks zoos are places where animals are kept only for entertainment purposes and treated poorly. Your response should include an explanation of how zoos have evolved, how zoos help animals, and how zoos help people.**	
29: Chapter Review	**Review** Chapter 25 **Task 1:** Answer questions 1-14 on page 864 **Task 2:** Answer questions 23 and 24 on page 865? **Assessment:** Complete the **Critical Thinking** questions on page 865 questions 25-31. **Biology 1 Honors**: **Complete the above work. In addition, complete questions 32 and 34.**	
30: Animal Systems II	**Read** pages 868-869 in your textbook **Task 1:** Look at the photo of the bald eagle on page 868. Pay attention to the eagle's bill. The phrase "form follows function" is a commonly used phrase in biology and a theme of this chapter.	

	What does that phrase mean? Use the bald eagle's beak in your explanation. **Task 2:** What does the term *biomimicry* mean to you? **Assessment:** How can we learn from nature to have a positive influence on our environment? **Biology 1 Honors**: **Complete the above work. In addition, write 3 things you hope to learn from this chapter.**	
31: Response	**Read** pages 870-875 in your textbook **Task 1:** How do animals respond to their environment? **Task 2: Describe some trends in nervous system evolution.** **Assessment:** Complete lesson review questions on page 875 questions 1-4. **Biology 1 Honors**: **Complete the above work. In addition, complete question 5 on page 875.**	
32: Movement and Support	**Read** pages 876-879 in your textbook **Task 1**: Compare and contrast the pros and cons of skeletal types? **Task 2:** What features of an endoskeleton provide support and movement? **Assessment:** Complete the lesson review questions 1-4 on page 879.	
33: Reproduction; Part 1	**Read t**extbook pages 880-883 in your textbook **Task 1:** Describe how mutation and genetic recombination increase genetic variation. **Task 2:** How do the offspring of asexual and sexual reproduction differ? **Assessment:** Complete Lesson Review 26.3 on page 887, questions 1-2 and 6.	

34: Reproduction; Part 2	**Read** pages 884-887 in your textbook **Task 1**: Define the following key terms and use in a sentence: • Placenta • Metamorphosis • Amniotic egg • Mammary gland **Task 2:** How are terrestrial vertebrates adapted to reproduction on land? **Assessment:** Complete Lesson Review 26.3 on page 887, questions 3,4, and 5. **Biology 1 Honors**: **Complete the above work. In addition, look at the Analyzing Data; Gestational Period chart on page 887. Answer questions 1-3.**	
35: Homeostasis	**Read** pages 888-891 **Task 1:** Why are interactions among body systems essential? **Task 2:** Define the following key terms and use in a sentence: • Endocrine gland • Ectotherm • Endotherm **Assessment:** Complete Lesson Review 26.4 questions on page 891 questions 1-5.	
36: Chapter Review	**Read** pages 894-895 in your textbook **Task 1**: Sketch the human brain and label the following parts: • Cerebrum • Cerebellum • Medulla oblongata **Task 2:** Write a brief summary of what you learned in this chapter? **Assessment:** Complete the chart on page 895 under the title **Organize Information.** Fill-in the blanks 1-6 using examples from the textbook.	

37: Chapter Review and Assessment	**Review** Chapter 26 **Task 1:** Answer questions 1-13 on page 898. **Task 2:** Answer questions 18 and 19 on page 898? **Assessment:** Complete the **Critical Thinking** questions on page 899 questions 27-30. **Biology 1 Honors**: **Complete the above work. In addition, complete questions 31 and 35.**	
38: Reflection	**Task 1:** What study methods were most successful to you this school year? **Task 2**: Look back at the entire school year, what unit in this course did you find the most interesting? Please explain. **Task 3:** What does the phrase "being science literate" mean to you? **Assessment:** Why is the study of biology important?	