SB6: Evolution - Student Learning Path

STANDARDS – WHAT AM I LEARNING?

SB6. Obtain, evaluate, and communicate information to assess the theory of evolution.

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.

b. Analyze and interpret data to explain patterns in biodiversity that result from speciation.

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.

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. (Hardy Weinberg)

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

HOW DO I GET THERE? ****Total score possible must add up to 120** **You must have 30 points from each section** All **Assignments must be completed by Friday 11/22/2019** end of class.	**Points**		**Teacher Signature**

1. **Edpuzzle: Speciation**	/10		
2. **Speciation Self – Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b11_05sc59/index.html	/5		
3. **Genetic Variation Self- Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b11_01sc55/index.html	/5		
4. **Speciation Reading Science Article**	/10		
5. **Speciation Writing Science**	/10		
6. **Edpuzzle: Natural Selection**	/10		
7. **Natural Selection Virtual Investigation** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/virtualinvestigations/b10_00vi14/index.html	/15		

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8. **Theory of Natural Selection Self-Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b10_03sc52/index.html	/ 5		
9. **Natural Selection Reading Science**	/10		
10. **Natural Selection Writing Science**	/10		
11. **Biological Resistance Reading Science**	/10		
12. **Biological Resistance Writing Science**	/10		
13. **Edpuzzle: Genetic Drift**	/10		
14. **Populations Virtual Investigation** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/virtualinvestigations/b11_00vi15/index.html	/15		
15. **Natural Selection in population Self – Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b11_02sc56/index.html	/5		
16. **Hardy –Weinberg Self Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b11_04sc58/index.html	/5		
17. **Patterns in Evolution Self Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b11_06sc60/index.html	/5		
18. **Mechanisms of Evolution Self – Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b11_03sc57/index.html	/5		
19. **Edpuzzle: Evidence of Evolution**	/10		
20. **Evidence of Evolution Self-Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b10_04sc53/index.html	/5		
21. **Fossil Record Self – Check** https://my.hrw.com/content/hmof/science/hss2017/ga/gr9-12/hmd_bio_9781328797179_/dlo/selfchecks/b12_01sc61/index.html	/5		
22. **Common Descent Reading Science**	/10		

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