Inquiry Lesson Plan

Author:	Ashley Owens		
Lesson Title:	Climate changes affect on Blanding's turtles		
Lesson	Climate change		
Topic:			
Context			
Grade Level, Course	Grades 9-12		
Anticipated timeline	5 class periods		
Learning	g Goals and Assessments		
Anchoring Phenomenon or Problem	Write a brief paragraph describing the "phenomenon" or problem that will be the central focus of your lesson. How does climate change affect the populations of Blanding's turtles?		
Performance	Successful learners will		How will you assess this objective?
Expectation	Investigate how temperature affects the population of species		Soil Inquiry Journal
	Evaluate how changes in population affect ecosystems		Soil Inquiry poster
Standards alignment HS-LS2-6. Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions but changing conditions may result in a new	Practices SEP.7: Engaging in Argument from Evidence	Disciplinary C LS2.C: Ecosys Resilience Crosscutting C CC.7: Stability	tem Dynamics, Functioning, and

Daily Activity Details				
Day 1	Teacher instructions Have a bell ringer asking what climate change is. (5 minutes) Students will be released after discussion to investigate how climate change works and will record this in their soil inquiry journal. (Rest of class)	<i>List materials, supplies,</i> <i>equipment needed</i> Printed soil inquiry journals Computers Books on climate change		
	<i>Student Handouts –</i> Soil inquiry journal	<i>List student products for</i> <i>assessment</i> Soil inquiry journal rubric		
Day 2	<i>Teacher instructions</i> Have a bell ringer asking about what students know about how turtles/reptile determine their sex. (5 minutes) After discussion, students will take the temperature of 5 soil samples. Students will then write their results in their journals and if the soil would produce male or female turtles.	List materials, supplies, equipment needed Seed germination pads (x5) Seed germination tray (x5) 5 soil samples Soil inquiry journals		
	<i>Student Handouts</i> Soil inquiry journal	<i>List student products for</i> <i>assessment</i> Soil inquiry journal rubric		
Day 3- Day 5	<i>Teacher instructions</i> Have a bell ringer on the importance of sharing and communicating results to others (5 minutes). Students will then create posters that communicate their research and results. Then they will share this with the class.	List materials, supplies, equipment needed Posters Markers Glue Scissors Soil inquiry journals		
	<i>Student Handouts</i> Soil inquiry journal	<i>List student products for</i> <i>assessment</i> Soil inquiry journal rubric Soil inquiry posters rubric		

References:

List all resources used in the production of this plan. Include references for any textbook sections your students will use. <u>https://documentcloud.adobe.com/spodintegration/index.html?r=1&locale=en-us</u> <u>https://documentcloud.adobe.com/spodintegration/index.html?r=1&locale=en-us</u> <u>https://documentcloud.adobe.com/spodintegration/index.html?r=1&locale=en-us</u>

** Use the Appendices on the following pages to attach any additional files you use with this lesson, including links to online materials, presentations (PowerPoint, Prezi, etc), and references to any hard copy handouts you use.

APPENDIX A

Learning Activities

Insert any handouts you create for this lesson/unit. If activities are from another copyrighted source, include just a bibliographic reference to the materials.

Soil Inquiry Journal

APPENDIX B

Assessment Instruments

Insert any assessments and rubrics you create as part of this unit. If assessments are from another copyrighted source, include just a bibliographic reference to the materials.

Soil Inquiry Journal rubric Soil Inquiry Poster rubric