

Naturalist Outreach

Lesson Plan



Brittany Jones

Grades: K-2 Date:

Unit/Topic/Lessons: Mussels

Objectives		Correlation to State & National Documents			
Student will be able to: Learn about mussel biology, learn how to help their environment		<u>Alabama Course of Study:</u> <u>Science</u> K-2: Earth and Human Activity <u>AHSGE/Exit</u> Standards & Eligible Content:		<u>National Science Standards:</u> <u>LEVELS K-2</u> <i>Characteristics of organisms</i> <i>Life cycles of organisms</i> <i>Organisms and environments</i> <i>Assessment</i>	
COS Content Standard		Materials/Resources		Assessment	
2.7. Obtain information from literature and other media to illustrate that there are many different kinds of living things and that they exist in different places on land and in water (e.g., woodland, tundra, desert, rainforest, ocean, river). K.6. Identify and plan possible solutions (e.g., reducing, reusing, recycling) to lessen the human impact on the local environment.	x	Hands-On Materials	x	Homework	
		Multimedia Materials		Test/Quiz	
		Computers/notebooks/PDA		Project	
		Web sites	x	Participation	
		Software	x	Class work	
		Overhead Masters		Presentation	
	x	Workbook/Handouts	x	Oral Responses	
		Other Equipment/Supplies	x	Teacher Observation	
		Guest Speakers		Self Evaluation	
		Maps	x	Group Evaluation	
		Lab equipment		Portfolio	
		Text:		Other (Journal Entry)	
Equipment needed		Instructions		Grouping Strategies (small group, pairs)	
Paper/pens, print out of local game board, print out of wordsearch.		Go over mussel anatomy, why mussels are important, how we can help save them by helping our environment. Game board involves choosing between two cards to see how every decision effects local environment.		Work in groups of 3-4 students so the groups can compare how their decisions changed their game board’s environment and ecosystem	
Assignments		Background/Preparation		Special	
Class work: Anatomy of mussels.		Teacher should have knowledge of basic mussel biology. Resources: 1.Brown, Kenneth & George, Gerald & Daniel, Wesley. (2010). Urbanization and a threatened freshwater mussel: Evidence from landscape scale studies. Hydrobiologia. 655. 189-196. 10.1007/s10750-010-0448-8. 2. Zanatta, David. “Species Declining, Threatened, Gone, Saved .” Project Passenger Pigeon, The Chicago Academy of the Sciences, passengerpigeon.org/SpeciesAtRisk_doc-foto/mussels.html. 3. NatureServe. 2018. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available http://explorer.natureserve.org .		Integration with other disciplines: English, math, critical thinking	
Guided practice:				Enrichment Activities/Extensions: Write a scientific paper on the study, or possibly neighborhood projects to help local environment	
Reading: Text/ Articles/ Other See Resource Guide					
Writing: Write about an endangered species native to area; write about ways to help the environment					
Homework: Mussel Anatomy, wordsearch done in class or at home					
Total Duration: Go over mussel information for 15 mins. Play game for 20-30 mins and 10 mins compare and discuss results. Scientific paper can be turned it at a time. Wordsearch could be homework or done in class.		Special Topics/Schedules Testing:___ Activity: x__ Assembly:___ Pep Rally:___Media/PR:___SAC:___ Career Education:___ Character Ed:___ Adopt-A-School:___ Athletics:_____			