Scrubbing the Skunk

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Mt. Pleasant Community High School, Mt. Pleasant Community School District

Grade Level (Req.): 11th-12th grade	Content Area (Re Science	eq.): Earth	Unit (Opt.):	
Connections to Other Disciplines (Opt.):				
Geography				
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Time Frame (Req.): One 80	Goal (Peg.): To help students understand human impact on water			
	Goal (Req.): To help students understand human impact on water			
minute class period	ecosystems.			
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			able to identify and locate latitude	
	and longitude co	ordinates using a		
Materials Needed (Req.):		New Vocabulary	(Opt.):	
 "A River Ran Wild" book 	"A River Ran Wild" book			
Landscape Change Picture Set				
Garmin GPS Garmin GPS				
 Canoes and Equipment ar 	nd Trash Bags	•		
IOWATER Test Kits				
 Google Earth pictures 				
Mimio Board and Overhe	ad projector or			
LCD projector with Power	• •			
Anticipatory Set/Introduction [Inquiry Question is required] (Req.): Is there any pattern with illegal				
dumping?				
Instructional Sequence/Procedure (Req.):				
1. Leading Activities – Read Aloud and Discuss "A River Ran Wild" (Robert Crumb?) – see Kathy				
Sundstedt lesson				
2. Picture Progression & Journal Reflection >> 'Where does the aquatic life go?'				
3. Geocaching Challenge (and practice)				
4. Canoe Clean-up Trip on Skunk River marking trash waypoints and type.				
5. Current Activities – Begin the lesson with an introduction to Google Earth website and				
discussing how to note each waypoint (locale) of trash collection from the Skunk River onto the				
website.				
6. The students would then collaborate in their clean-up groups using laptops to mark these points				
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-	online. **A low-tech option is for each group to have their own transparency and own color of marker to note waypoints so all can be combined and shared with the class at the end.			
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Formative Evaluation (Req.): Check for	Assessment (Req.): Following the discussion of			
understanding of the book during discussion	possible dumping patterns. The class will elect one			
	of the sites to test water quality (IOWATER testing			
	kits). Once a site is selected, the class will			
	determine the relative and absolute location			
	(understanding the difference) and add it to the			
Lead Constant of Charles de Head (Dec.)	"lowater Website" – then planning the testing day.			
Iowa Core Curriculum Standards Used (Req.):	of a constable to the land of a color of the character of			
 Geography, grade 9-12: Understand the use of geographic tools to locate/analyze data about people, places, and environments. 				
 Geography, grade 9-12: Understand how physical and human processes shape the Earth's surface and major ecosystems. 				
• Geography, grade 9-12: Understand how human actions modify the environment and how the				
environment affects humans.				
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Common Core Curriculum Standards Used (Opt.):				
• Common core curriculum standards osed (Opt.).				
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NGS Standards Used (Req.):				
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 How to use maps and other geographic representations, geospatial technologies, and spatial thinking to understand and communicate information 				
The physical processes that shape the patterns of Earth's surface				
 The physical processes that shape the patterns of Earth's surface The characteristics and spatial distribution of ecosystems and biomes on Earth's surface 				
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How human actions modify the physical environment				
How physical systems affect human systems				
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Five Themes of Geography Used (Req.):	School District Standards and Benchmarks (Opt.):			
Location	•			
Human-Environmental Interaction	•			
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21 st Century Universal Constructs (Opt.):	
Other Disciplinary Standards (Opt.):	
Other Essential Information (Opt.):	
Other Resources (Opt.): • • • • •	