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Comparing and Contrasting Water in the United States and Nigeria

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Comparing and Contrasting Water in the United States and Nigeria

Kim Daughetee and Anne Hoeper – School not available; Wood Intermediate School

Grade Level (Req.): 5th-7th	Content Area (Re	eq.): World	Unit (Opt.):	
grade	Geography, Phys	ical Geography,		
	English			
Connections to Other Disciplines (Opt.):				
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•				
Time Frame (Req.): 1 class period	Goal (Req.): To learn about the natural resources available in			
	different parts of the world.			
	Objective (Req.): Students will describe the various sources and uses			
	of water. Students will compare the similarities and differences of			
			e US. Students will discuss	
	problems associa	ated with water qu	uality.	
Materials Needed (Req.):		New Vocabulary	(Opt.):	
Nigerian resources		•		
Background information on Nigeria		•		
Background information on water systems		•		
in Nigeria		•		
 "WOW! The Wonders of Wetlands", by 		•		
Alan S. Kessetheim and Britt Eckhardt				
Slattery. Published by Environmental				
Concern, Inc. 1995.				
 "Earth Matters", by Pamela Wasserman 				
and Andrea Doyle. Published by Zero				
Population Growth, Inc. 1991.				
•				
•				

Anticipatory Set/Introduction [Inquiry Question is required] (Req.): Although water covers three-quarters of the Earth, only a small fraction is available for human consumption. Why is the conservation and acquisition of water so important? Discussion: 1) Have students brainstorm ways in which we use water. (Examples include domestic, agriculture, industrial/commercial). 2) Discuss where our water comes from. (Examples include the transport system, as well as tracing tap water to its source). 3) Investigate diseases, their causes and effects, associated with using untreated water.

Instructional Sequence/Procedure (Reg.):

- 1. Have students keep track in a 24-hour period, how often they use water and what for. Have students chart or graph their results.
- 2. Take a field trip to your local water treatment plant. List the steps in processing water for human consumption.
- 3. Show students ways in which Nigerians get their water (water tanks, wells, rivers, streams, bottled water). Simulations might include bucket baths, getting water from a well, head-carrying, boiling water.
- 4. Discuss the rainy season in Nigeria, and talk about your own local climate and annual rainfall.

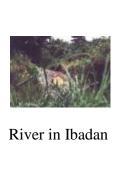
	Graph the amount of precipitation between the North and the South – compare with annual amounts in your own region.				
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Format	ive Evaluation (Req.): Class discussion	Assessment (Req.): Students can write a short			
	(1,	paper summarizing the similarities/differences in			
		the uses of water between Nigeria and the US.			
Iowa Co	ore Curriculum Standards Used (Req.):	5			
Geography, grade 6-8: Understand how geographic and human characteristics create culture and define regions.					
•	 Geography, grade 6-8: Understand how human factors and the distribution of resources affect 				
	the development society and the movement of populations.				
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Common Core Curriculum Standards Used (Opt.):					
•	Writing, grade 6-12: Produce clear and cohe	rent writing in which the development,			
	organization, and style are appropriate to task, purpose, and audience.				
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•	•				

NGS Standards Used (Req.):

- The physical and human characteristics of places
- The processes, patterns, and functions of human settlement

 The changes that occur in the meaning, use • • • • • • • • • 	
Five Themes of Geography Used (Req.):	School District Standards and Benchmarks (Opt.):
Human-Environmental Interaction	•
• Movement •	•
21 st Century Universal Constructs (Opt.):	
Other Disciplinary Standards (Opt.): • • • • • • • •	
Other Essential Information (Opt.):	
Other Resources (Opt.): • • • • •	

WATER





A bucket is always kept full for those days when there is no water.



The water tank is higher than the house so that the owner can have running water on the second floor.



Water tank



Collecting water from the well



Well located by the river.



There is no garbage pick up service so it has been deposited by the river.



Garbage



Six weeks of garbage



Washing barrels that previously held chemicals.



Washing clothes and bathing children down river from the sight where the men are washing the barrels.



Washing clothes and children in Ibadan.



Yankari hot springs



Gathering water to drink from the natural spring.



Swimming in the hot springs at Yankari.



Swan's bottled water



Kokodome



Niger river (Note the small fishing boats.)



When it rains - you wait.



Waiting for the rain to stop in the Onitsha market place.