Dr. Kay Weller – UNI

Grade Level (Req.): 7th-12th	Content Area (Re	eq.): World	Unit (Opt.):	
grade	Geography, Phys	sical Geography,		
	English/Reading			
Connections to Other Disciplines (Opt.): •				
Time Frame (Req.): 2-4 days	Goal (Req.): To learn about the characteristics and spatial distributions of desertification in Africa and specifically Nigeria.			
	Objective (Req.): Students will compare and contrast maps of Africa showing climates, vegetation, and precipitation and analyze them as they relate to Nigeria in a 1 page essay. Students will search the Internet (or library) for information regarding desertification locating the region of Africa where desertification is an environmental issue on a blank map. Students will define desertification in one paragraph, and explain what two human processes cause it (overgrazing and overplowing/mismanagement). Students will research the Internet or library about Fulani herders in Nigeria and how they help prevent desertification through migration from Northern Nigeria to Southern Nigeria and back. Students will write a fiction story about a young Fulani herder (age 10-13) and his adventures as he grazes his herd.			
 Materials Needed (Req.): Atlases showing vegetation, precipitation, and climates of Africa Blank maps of Africa Searching Netscape there are over 2000 web pages when searching "desertification Nigeria". You may choose some you particularly like. 		New Vocabulary • • • • •		
Anticipatory Set/Introduction [Inquiry Question is required] (Req.): What are the characteristics and				

Anticipatory Set/Introduction [Inquiry Question is required] (Req.): What are the characteristics and spatial distributions of ecosystems in Nigeria?

Instructional Sequence/Procedure (Req.):

- 1. Pass out maps (atlases) of Africa showing climates, vegetation, and precipitation.
- 2. Have students write a one-page essay analyzing the relationship between the phenomena on the three maps.
- 3. Students should search the Internet or in the library for information about desertification. They should then identify where in Africa it is an environmental issue and generate a map locating the

	area now under threat from desertification (Sahel).			
4.	Students should define the word, and explain in a one-page essay what two human processes				
	can cause it (overgrazing and overplowing/n	nismanagement).			
5.	Have students research and learn about Fulani herders and how they migrate from Northern				
	Nigeria to Southern Nigeria and back so that they do not overgraze the region.				
6.	Students should then write a fiction story featuring a young Fulani herder aged 10-13 and his				
	adventures while herding cattle. Story should include the following: Title, Male herder,				
	Information about the physical and human characteristics of Nigeria as he proceeded on his				
	herding migration, Explain how seasonal movement of livestock (transhumance) can help				
	prevent desertification in Nigeria, Illustrations and maps showing where the herder migrated.				
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	ive Evaluation (Req.): Class participation	Assessment (Req.): Essays, map, and fiction story			
TOTTIAL	rive Evaluation (Neq.). Class participation	Assessment (Ned.). Essays, map, and netion story			
Iowa Co	Iowa Core Curriculum Standards Used (Req.):				
•	Geography, grade 9-12: Understand the use	of geographic tools to locate and analyze			
	information about people, places, and enviro				
•		ysical and human processes shape the Earth's			
	surface and major ecosystems.				
•	 Technology Literacy, grade 9-12: Apply digital tools to gather, evaluate, and use information. 				
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Common Core Curriculum Standards Used (Opt.):					
 Writing, grade 6-12: Produce clear and coherent writing in which the development, 					
	organization, and style are appropriate to task, purpose, and audience.				
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NGS Standards Used (Req.):					
•	 How to analyze the spatial organization of people, places, and environments on Earth's surface 				

The characteristics and spatial distributions of desertification in Africa and specifically Nigeria

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Five Themes of Geography Used (Req.):	School District Standards and Benchmarks (Opt.):			
• Location	•			
Place	•			
Human-Environmental Interaction	•			
Movement				
Region				
21 st Century Universal Constructs (Opt.): Critical Thinking, Creativity				
Other Disciplinary Standards (Opt.):				
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Other Essential Information (Opt.):				
Other Resources (Opt.):				
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