Biomes: Research and present your biome on Pinterest

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Grade Level (Req.): 11/12th	Content Area (R		Unit (Opt.): Biomes	
	Environmental	Science		
Connections to Other Disciplines	s (Opt.):			
• 21st Century Skills: use of	of technology			
 Use of social media for a 	•	cation purpose		
•	_			
Time Frame (Req.): 4-5 class	Goal (Req.): Research one biome and identify all of the biotic and			
periods/days	abiotic features	abiotic features.		
	Objective (Req.): Students should be able to identify food webs, a			
	well as all the other biotic and abiotic features in their assigned			
	biome and organize their informational facts and visual aids into a classroom Pinterest board that all can access and learn from			
	one another.			
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Materials Needed (Req.):		New Vocabular	y (Opt.):	
Most of the research and presentation will be accomplished by using their computers and the		Biome,	niche, habitat, biotic, abiotic,	
		photosy	nthesis, survive, food chain, food	
internet.		web,	l mina	
• 1 to 1 laptop computers		Pinterest, board	ı, pilis	
 Internet connection 				
National Geographic video:	Planet Earth			
Anticipatory Set/Introduction [I	nquiry Question i	s required] (Req.): (After viewing a video clip	
Anticipatory Set/Introduction [I recap of numerous biomes that				
- · · · · · · · · · · · · · · · · · · ·	are represented ir	the National Geo		
recap of numerous biomes that	are represented ir	the National Geo		
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- 1. To begin the lesson on biomes, students will watch a video clip from Planet Earth and will answer the anticipatory set question.
- 2. The teacher will then take the students through a short lecture that includes explanation of biotic and abiotic features, the differences between a food chain and a food web, and other key vocabulary associated with biomes.
- 3. The next portion of the lesson will begin by looking at examples of how other students have used Pinterest to show a collection of facts, photos, and relative geographical information.
- 4. Each student will then be assigned a biome to research and create a Pinterest board for on the classroom page. The remainder of the first day will be spent looking up the location map of their biome as their first "pin".
- 5. The students will spend the next two class periods working to add information on their biomes to their Pinterest board. Their board should include:
- -A location of the biome on a world map
- -A description or representation of physical features of their biome: climate, terrain (i.e. mountains), precipitation
- A description or representation of a prominent food chain, and food web in their biome
- Photos of common plants and animals found in their biome
- Identification of any endangered species from their biome
- Description or representation of the impact of humans on the biome; specifically regarding the endangered species
 - 6. The last class period or two will be reserved to allow students to present their board to the rest of the class. Students will be asked to describe each of the six elements (step 5) included on their Pinterest board to the class.

Formative Evaluation (Req.): Submit your rough draft on day 3; I will give positive and constructive feedback on progress made so far. Resources not cited in the usual way...discuss

Assessment (Req.): Each student submission must include 40 "pins" that demonstrates what the student has learned about their biome. The rubric shall evaluate the inclusion of the

the difference between plagiarism and this form	required elements, creativity, and overall
of social media sharing.	knowledge demonstrated.
Iowa Core Curriculum Standards Used (Req.):	
 Iowa core: S.9-12.LS.12- Understand and a organisms. 	apply knowledge of the interdependence of
• Iowa core: S. 9-12.LS.16- Understand and	apply knowledge of the interdependence of
 matter, energy, and organization of living Iowa core: S.9-12.LS.16- Understand and a 	systems. apply the knowledge that the sun provides the
original source of energy for life.	
 Iowa core: S.9-12-LS.14- Interrelationship systems. 	s and interdependency lead to long term stable
systems.	
Common Core Curriculum Standards Used (Opt.):	
Misic Curriculum standards:	
 S09-12.CG.03.02- food webs and food cha 	· · · ·
 S09-12.CG.03.02-100d webs and 100d cha S09-12.CH.03.03- photosynthesis and how 	
• S09-12.LS.03.03a. plants capture the suns	' energy and uses it to form organic compounds
(which humans need to complete their end	ergy needs.)
NGS Standards Used (Req.):	
	ystems; 8.2B- evaluate ecosystems in terms of
 biodiversity and productivity. NGS 15.Badaptation strategies in resp. 	onse to the restrictions imposed on human
systems by physical systems by identifying environmental conditions.	<u>=</u>

Five Themes of Geography Used (Req.):	School District Standards and Benchmarks	
Interactions: Environmental impact on humans and human impact on environment Region: United by similar conditions Location: Latitude and Longitude Place: Physical Features	 We use the Misic Standards and Benchmarks found in my Curriculum Manager • 	
21st Century Universal Constructs (Opt.): Use of in	ternet to research the physical features of the	
chosen biome, create a board in Pinterest-includir deadline and completing a task that fulfills all the		
Other Disciplinary Standards (Opt.):		
Other Essential Information (Opt.):		
Other Resources (Opt.):		
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