Lesson Plan Prepared By Carr City and Beld State Grade Level 9-12 Keywords (subjects depl covered) Brief Stud Description follo the i Stud import Total Time Required com Setting The	clogy, photosynthesis, symbiosis, forestry, forest regeneration, mutualism, pletion of natural resources dents will take a field trip to a local forest and gather objective data about the lowing concepts: forest ecosystems, different species of trees, photosynthesis, interaction between the forest and the dominant wildlife of the forest. dents will then prepare a lab activity to teach other students about the portance of the planet's resources. class periods allowing for pre-lab instruction, actual field trip, time in the inputer lab to prepare lab activity and time for presentations.			
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Setting The a ne				
a ne	e setting should be a local forest, possibly state owned land or land owned by			
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Addressed				
3.2.3	.3 Classification C			
	.4 Growth and development B			
3.2.4				
3.2.4				
	.5 Photosynthesis C			
	.5 Photosynthesis C			
3.2.5				
3.2.5	Ecological Systems, including 1 Community relationships, including C			
Lesson Stude related Stude clear Stude Stu	computer lab to prepare lab activity and time for presentations. The setting should be a local forest, possibly state owned land or land owned by a nearby university, land owned by a private citizen that grants permission, or even a forest that the DNR may be conducting research on or can get permission for the school to visit. Students will understand the role of photosynthesis and the mutalistic relationship between plants and other living organisms. Students will learn key concepts on forest regeneration and the advantages of clear-cutting or selective cutting of climax forests. Students will understand the relationship between the ecology of a forest and the human impact on that ecosystem. Students will observe nature including dominant vegetation and wildlife. Students will look for the presence of invasive species or exotic species. Students will understand the difference between renewable and non-renewable resources and the impact of using those resources. Students will need the following things: notebook, clipboard, camera, pencil, prepared handouts that cover keying out specific species and procedures, long pants, closed toed shoes, bug spray and measuring tape. These are the Michigan Standards addressed: 3.2.3 Classification C 3.2.4 Growth and development B 3.2.5 Photosynthesis C 3.5 Ecological Systems, including			

	0.5.0	Devotation	D		
	3.5.2	Population	В		
	3.5.3	Transfer of energy (food	С		
		chains/webs)			
	3.5.5	Human impact	С		
Procedure	1	Students will be instructed b	by the teacher on major ecological concepts		
	1.	including photosynthesis, symbiosis, forestry and the conservation of			
		natural resources.			
	2	 Students will brainstorm possible ideas for a lab activity. Students will attend the field trip and gather data. 			
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	4.		assroom and make a "recipe" for the lab		
		which includes materials needed, overview or synopsis of what the			
		objective of their lab will include, and procedure for completing the lab.			
	5.	5. Students will get the teacher's approval for the lab.			
	6.	6. Students will design and prepare the lab activity.			
	7. Students will present the lab activity to the class.				
Assessment	Students will prepare a lab activity that integrates the role of ecology, photosynthesis, symbiosis, forestry, forest regeneration or other teacher				
	approved concept. After presenting the lab activity the teacher will grade the lab for accuracy and				
	students will give peer feedback and suggestions for improving the lab.				
	Students will turn in the completed lab.				
Literature		•	140.		
	www.Michigan.gov				
Cited/Refere					
nces					
Forestry Tour	Lake States, 2008				
Attended					

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