Science 10 Substantial Assignment

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• • •	Wh god Sol Sol sup	nen ans od idea me of tl me of tl oport yo	expectations: wering the questions in this assignment, be sure to answer in full sentences. A is to rephrasing the question as the opening sentence to your answer. the questions have multiple parts, please be sure to answer all them. the questions are opinion based. When answering such questions be sure to our opinion with what you have learned. If you do outside research to support over please be sure to include the references.
	1.		ssues21 pages 8-9. What other actions or events have helped or hurt ersity? List as many as you can think of. Feel free to use external resources.
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	2.		ssues21 pages 10-11. In one sentence define each of the following. Ecosystem Diversity:
		b.	Species Diversity:
		c.	Genetic Diversity:
	3.		scientists believe genetic diversity is as important as species diversity to the of an ecosystem. Why do you think that could be?

FYI

Biodiversity in our Lives...When we go to the pharmacy to have a prescription filled, few of us think about the connection between our medicine and biodiversity. Yet many of today's medicines have been developed from plants found around the world. For instance, the active ingredient in aspirin was first discovered in the white willow.¹

4.	What role do you think beavers have in the biodiversity of an ecosystem?
5.	Beavers are considered a keystone species. Using Google to define keystone species .
6.	Read Issues21 pages 12-13. What happens to an ecosystem when a keystone species is lost?
7.	What threats to biodiversity do you see where you live? List as many as you can think of. You may use external resources.
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8.	Read Issues21 pages 14-15. The US Department of Agriculture is planning on dropping dead mice laced with poison in the forests of Guam. They are hoping to kill off all the brown tree snakes. What possible problems might arise from this action?
9.	Read Issues21 pages 18-19. Do you think it's important to save endangered species? Why or why not?
10.	Read Issues21 pages 20-21. What place does nature have in your life?
11.	What goods and services from nature do you use? How would your life be different without these goods and services?

or disagree with this statement?
FYI
If we fail to recognize the link between biodiversity loss and human well-being, future erations will face significant ecological, economic, social and cultural costs. Degraded forest, cultural and aquatic ecosystems are less productive and require greater inputs if they are to inue to support the communities that depend on them. It has recently been coast ground eries is several billion dollars. Soil erosion has cost agriculture hundreds of millions of dollars. abilitation programs currently being pursued in the St. Lawrence River, the great Lakes and the er River Basin are also costing hundreds of millions of dollars. Hopes for future prosperity require that our actions and decisions reflect the value of iversity. Lessons from our history illustrate the importance of conserving biodiversity and using biological resources in a sustainable manner. Our production of wheat has benefited greatly from ctively breeding domesticated wheat with genetic material from wild relatives found in other softhe world. If these relatives had been lost, wheat production would not have reached its ent state. If we fail to conserve biodiversity, we risk losing genetic material that could be used to ance agricultural productivity further. We risk losing opportunities to develop new drugs and strial products. In short, we risk losing opportunities to improve the quality of our lives. These is can be avoided, however, if we recognize that preventive action and more careful management
ne Earth's resources are more cost effective in the long-term than relying on programs to tackle olems once the damage has been done.
rence nadian Biodiversity Strategy Canada's Response to the Convention on Biological Diversity 1995 ://biodivcanada.ca/default.asp?lang=En&n+560ED58E-1]
Read Issues21 pages 24-25. Where would you like to travel? What impact would your visit to this place have on the environment?

14.		Issues21 pages 26-27. Which of these three actions do you think is the most ve at solving environmental problems? What other action might also be effective?
15.	article be sur organi (keep	on a web browser such as Google 'Standing Rock protest'. Sift through the many is that show up. This assignment is partly about finding a reliable Internet resource, re the article you choose is from a reliable source such as a reputable news zation. You may need to review several articles before finding all of the information track of your resources). Where is Standing Rock?
	b.	When was the standing rock protest?
	c.	What is the issue that the people were protesting?
	d.	What happened to the people who were protesting?

- e. If you would like to find out more about this protest, a documentary film was made (partly using drone footage of the protest) and is available on Netflix. The film is titled 'AWAKE, A Dream from Standing Rock'.
- f. Resources: provide a complete list of resources you used to find this information. Attach it to your assignment

16.	16. Read Issues21 pages 28-29. How do our actions impact the environment? What things you could do in your everyday life to help the environment around you? If you get others involved?				
17.	On Issues21 page 29 you will read about the Idle No More campaign. If you are interested in finding out more about the campaign check out the Idle No More website [http://www.idlenomore.ca].				
18.	How are Aboriginal rights and protecting the environment connected?				
19.	Read Issues21 pages 30-31. Why is it important to identify new species or be able to determine the difference between similar species?				

Read Issues21 pages 32-33. Why is it important to protect plants and animals that are in danger of becoming extinct?		
Do you think spending money on protecting only biodiversity hotspots is a good way of protecting the world's biodiversity? Why or why not? Who should pay to preserve species?		
Do you think the IUCN's Red List is an effective way to look at animals at risk? Why or why not?		
It is important to ask questions, curiosity drives knowledge. At this point in learning about Biodiversity, what questions do you still have? List at least three questions.		
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