

Animals in Migration

WebQuest Description: Students will analyze the migration of a species due to climate change and decide what the reasoning behind this movement is.

Grade Level: 3-5

Curriculum: Science

Keywords: Climate change, Movement, Species, Migration, Environments, Science

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Introduction

There are over 50 million different kinds species on planet Earth today. As you explore this unit, you will learn about the pollution that affects the environment, and the water cycle. The pollution in the world is leading to climate change. This affects where animals live and why. Due to the climate change and pollution, animals are going extinct or having to migrate in order to continue survival. In this web quest, a researcher needs your help in tracking the movement of animals all over the world. The student needs to figure out where some of the animals they are researching have moved to! Help discover the migration patterns of an animal by researching about its movements.

Tasks

The task of this web quest is to explore the movement of animals all of the world. Students will be finding resources about the animal you pick to track and document the movement of the animal over time. The causes for the movement should be related to pollution and climate change. Resources include but are not limited to videos, charts, articles, pictures, or websites relating the the migration of your animal.

Process

A. Begin your Research

- Identify one of the following animals that you want to track. Little egret, Tropical rabbitfish, Tropical parrotfish, Bark beetles, Polar bears, Adelie Penguin.
- You may use the following websites to research information about where and why the animals migrated: Little Egret <http://www.theguardian.com/environment/2011/aug/18/climate-change-species-habitats>, <http://www.birdwatchireland.ie/Publications/eWings/eWingsIssue12September2010/Climatechangecolonistsufferssetback/tabid/1030/Default.aspx>, Tropical Rabbitfish <http://news.nationalgeographic.com/news/2014/07/140725-climate-change-tropical-fish-animals-ocean-science/>, [http://polyconundrum.com/nl/articles/climate/impacts/9686-migrating-tropical-rabbitfish-are-stripping-mediterranean-sea-vegetation.html#](http://polyconundrum.com/nl/articles/climate/impacts/9686-migrating-tropical-rabbitfish-are-stripping-mediterranean-sea-vegetation.html#.VIOv4VfF9bk), Tropical Parrotfish <http://newsroom.unsw.edu.au/news/science/beautiful-threat-%E2%80%93-tropical-fish-invasion-destroys-kelp-forests>, Bark Beetles <http://www.csmonitor.com/Science/2011/0819/Climate-change-Species-climbing-higher-and-migrating-north-study-says>, http://www.fs.fed.us/wwetac/projects/PDFs/BioScience_CC_and_Bark_Beetles.pdf, Polar Bears <http://ngm.nationalgeographic.com/2011/07/polar-bears/mcgrath-text>, Adelie Penguin <http://www.ncbi.nlm.nih.gov/pubmed/20715628>, http://www.nytimes.com/2011/05/10/science/10penguins.html?pagewanted=all&_r=0.

3. Create a new Microsoft Word document, this will be your research sheet. Answer the following questions using the research you've discovered and recorded. Make sure to include your references. What animal are you doing your research on? Where was the animal's original habitat? Why did the animal live there? (What was in the environment that benefited the animal?) Where did the animal migrate to? Why did the animal move there? (What kind of climate change occurred in the animals natural habitat to cause them to migrate?) Which environment do you think is better for the animal and why?

4. Now that you have acquired all your information, you are ready to start the next process of this web quest!

B. Creating Your Map

- Print out the attached blank map of the world.
- Locate the original environment of the animal you selected. Draw a green dot.
- Next, locate the new location that the animal migrated to. Draw a red dot.
- If you can locate the path that the animal took while migrating, copy this path on your map to the best of your ability. If no known path is found, draw a line connecting the green dot and red dot.
- When you are done mapping the movement of your animal, attach the printed complete research sheet.
- Also attach a picture of your animal. Write your name, the date, and your period on the front of your research sheet.

Evaluation

Standards learned for this Webquest: SC.5.L.15.1 Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations. LAFS.5.W.3.8

Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources.

Category and Score	Poor	Good	Great	Excellent	Score
Research sheet is completed and includes resources used	2	4	6	8	
Research is thorough and includes appropriate information and content	2	4	6	8	
Student's map clearly depicts the migration of their animal	2	4	6	8	
Student shows understanding of climate and environmental changes effect on animals through their responses on the research sheet	2	4	6	8	
				Total Score	

Conclusion

Great job! You have completed the research on tracking animal migration across the world due to climate change. After researching, analyzing, and producing and understanding of your knowledge, you will now present your findings with the rest of the class. We will all be presenting on April 28th. Your presentation should focus mostly on the map that you created. Make sure to share the animal you researched, where they are from, where they migrated to, and why they moved.

Teacher Page

Standards

These are the standards that the students learn while exploring this web quest.

SC.5.L.15.1 Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.

LAFS.5.W.3.8 Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources.

Credits

These sites were helpful in creating and finding information for my web quest

<http://www.livescience.com/3864-global-warming-changing-wild-kingdom.html>

<http://articles.latimes.com/2009/nov/30/opinion/la-oe-corwin30-2009nov30>

Other

This web quest was created by Jessica Jacobs, feel free to contact me at JJacob60@fau.edu.

Thank you :)