

Examining Worldwide Climate Change

The Task: Identify the location on Earth most susceptible to climate change.

How To:

More detailed instructions for each step follow.

1. Complete the Preview Activities
 - a. Use the links as provided at the beginning of each section, or
 - b. You can go to <http://wke.lt/w/s/1LebY> and go from there
2. Use ArcGIS to analyze the current and future impact of climate change on one of your FGP countries.
3. Explain the impact of climate change in your country using a Story Map on ArcGIS Online.
 - a. Suggested templates include: Basic, Cascade, Journal, Series
 - b. Must include (more detailed information included below)
 - i. at least five pieces of data to be highlighted by Story Map
 - ii. at least one summary of climate change's level of impact on the country.

Grading: Project – 50 points

Accuracy and Completeness (20 points)

All components of assignment are complete with the expected information.
All information provided is correct.

Effort and Thought (20 points)

Work demonstrates consideration and thorough understanding of the information.
Assignment shows effort and creativity (when appropriate).

Overall Quality (10 points)

COPS!!
Assignment is neat and looks nice.

Evaluating Worldwide Climate Change: Preview Activities

Answer the following questions as a preview to the activity.

1. What is weather? What is climate? How are they different?

2. What are factors that impact weather and climate in Minnesota?

Go to the link <http://hanschen.org/koppen/> to read about Minnesota's climate.

1. What type of climate does Minnesota have?

2. Define (describe) that type of climate.

Take the Ecological Footprint Quiz by going to www.earthday.org/footprint-calculator. Explain your results from the Footprint Calculator. (How many Earths? Why do you require that many?)

Go to the "Climate Migrants" story map at <http://storymaps.esri.com/stories/2017/climate-migrants/index.html>

1. How is climate change displacing people?

Go to the "WWF Ideas for Action" at www.worldwildlife.org/threats/effects-of-climate-change

1. Explain the causes of climate change from the WWF's perspective.

2. Choose 1 animal and 1 place from the "Impacted Species and Places" list. How does WWF explain that climate change is impacting each? (Don't pick African Elephants or Dolphins)

Go to the NRDC Global Warming Solutions at <https://www.nrdc.org/stories/how-you-can-stop-global-warming>

1. Choose the 2 solutions from NRDC that you think should be implemented. Explain why you think these should be our priority.

Go to the BBC Climate Change map to [news.bbc.co.uk/2/hi/in_depth/629/629/6528979.stm](https://www.bbc.com/news/health-6296296528979)
Complete the following table.

Region	How will climate change affect water?	How will climate change affect agriculture/food?	How will climate change the climate?
Africa			
Asia			
Small Islands			
North America			
Polar Regions			

How _____ is affected by Climate Change

Use the ArcGIS map posted in the Group to research how the country is and will be affected by climate change.

Use "Climate Change – Story Map Resource" map to complete the following tables.

Map Name	How does this layer show the impact of climate change?	Describe the seriousness of this attribute in your country
C		
B		
A		

Story Map Planning

What layers will you use to illustrate climate change in your country? Describe what each layer will show about your country. (Each of these layers will be highlighted in the Story Map - 5 layers C, 6 layers B, 7 layers A)

Using the data from the layers, describe the level of seriousness of climate change in this country. This will be the final piece of your Story Map.