



Unit Title: How does Climate Change Change US?

Grade Level: High School

Subject Area: Math, Science, CTE

**Duration/Length/Number of class periods:** 7 class periods (50 minutes)

### Description:

In this unit, students explore the interconnectedness of climate systems and impacts of climate change. Students explore how climate change impacts themselves and people in multiple parts of the world and how some areas have resources to mitigate the impacts and others do not.

## **Established Goals** (National, State, Local):

- MN 9.4.1 Display and analyze data; use various measures associated with data to draw conclusions, identify trends and describe relationships.
- MN 9.4.2 Explain the uses of data and statistical thinking to draw inferences, make predictions and justify conclusions.
- MN 9E.2.1.1 Students will be able to represent observations and data in order to recognize patterns in the data, the meaning of those patterns, and possible relationships between variables.
- MN 9E.4.2.1 Students will be able to read and interpret multiple sources to obtain information, evaluate the merit and validity of claims and design solutions, and communicate information, ideas, and evidence in a variety of formats.

### What Enduring Understandings are desired?

How does climate change disproportionately impact people in the US and world?

### What Essential Ouestions will be considered?

How does climate change impact people's lives?

Compare how climate change impacts me, people in the US, people in the world

### Students will know / be able to:

- -explain how the components (at least 3) of climate systems are connected
- -explain visually how the arctic climate changes impact other parts of the world
- -connect a climate impact to themselves, another part of the US, and another part of the world
- -analyze the disproportionality of climate impact in different parts of the world
- -share learning with classmates via shared google slide show

Description		Units must include at least one of each formative, summative, introductory activity and learning activity. Check the appropriate box; one per row.	For ma tiv e	Su m m ati ve	Int ro du ct or y Ac tiv ity	Lear ning Activi ty	Student Technology Used	Teacher Technol ogy Used	ISTE Standar ds
Climate Web Active     system - lesson p	vity - students model the interconned lan <u>link</u>	tedness of the climate			Х			google suite	
2. Climate Systems units - link	Worksheet - apply concepts from we	b activity and previous	Х				google site, notes	google suite	
_	erent communities of living things are and share out to group with recorded	· · · · · · · · · · · · · · · · · · ·	X			Х	video app	google suite	1.d
_	ic changes impact the rest of the wo tion of an arctic feedback loop) - les	•	X			X	google slides/piccollag e/other	google suite	2.a, 3.b, 3.c, 5, 6
	deo exploration - Regional impacts o amboard to connect regional factors		х			Х	jamboard, website videos	google suite	2.c, 5
6. Self-Connection - write your own cli	How is climate change impacting yo mate story)	ur life? (mentor text -	Х			Х		google suite	
	<ul> <li>Find another place in US where peoexploration of personal youth stories</li> </ul>		х			Х	ocof website videos	google suite	4.c, 4.d
	ion - impact of climate change and h the world (google slides collaborativ			Х			google slides	google suite	2.a, 3.b, 5, 6

# Materials, tools and resources:

- 1. climate system "name" tags, string
- 2. resources from previous units, worksheet (printed and electronic)
- 3. readings (printed, electronic, recorded audio)
- 4. readings (printed, electronics, recorded audio), google slides or piccollage
- 5. jamboard or video link google doc assignment
- 6. paper, google doc journal assignment
- 7. google doc video assignment
- 8. shared google slides presentation

Unit Plan Author (name, school and optional email address or hyperlink to teacher's web page): Jennifer George, Fairview Alternative HS, jennifer.george@apps.isd623.org

Additional credit given to: Our Future Our Climate, NEED, Climate Generation