

Climate Change Lesson 9 - Extreme Weather

Objectives

- Students will gain a basic understanding of extreme weather and the differences between regular weather
- Students will learn about different forms of extreme weather and in groups will have to present their findings to the rest of the class
- Students will gain an understanding of the interconnectedness of our planet as it pertains to extreme weather
- Students will draw links between extreme weather and climate change
- Students will demonstrate an understanding of the social and ecological consequences are for extreme weather

Vocabulary

- Atmosphere
- Avalanche
- Biosphere
- Blizzard
- Drought
- Flood
- Geosphere
- Hurricanes
- Interconnected
- Tornadoe
- Tsunami
- Severe Weather
- Wildfire
- Volcano

Materials

Computer with Internet, art supplies, blackboard, whiteboard or smartboard

Warm Up

Discussion Questions:

- *Have you ever experienced extreme weather?*
- *How is extreme weather different from regular weather?*
- *What are some examples of extreme weather around the world?*
- *What would be your worst natural disaster and why?*

Lesson

Show students four videos (2-3 minutes each) below. Then, have the students list extreme forces of nature.

Extreme Weather: Interconnections in Extreme Weather:

<https://www.nationalgeographic.org/video/extreme-weather-interconnections-in-extreme-weather/>

Extreme Weather: Droughts: <https://www.nationalgeographic.org/video/extreme-weather-droughts/>

Extreme Weather: Climate Feedback Loops:

<https://www.nationalgeographic.org/video/extreme-weather-climate-feedback-loops/>

Extreme Weather: Sea Level Rise: <https://www.nationalgeographic.org/video/extreme-weather-sea-level-rise/>

Assignment

- a. From the students' list of extreme forces of nature, divided the class into groups
- b. Each group will be given or will choose an extreme weather pattern that they will need to do research on
- i. The three main questions that need to be answered are
 1. What are the causes and factors of this extreme weather?
 2. How and if this relates to climate change?
 3. What are the human ecological consequences of this extreme weather?
- c. Students will need to present their findings with a board/powerpoint to the class

Wrap Up

Have students present their findings to the class. Make sure one student from each other group asks a question after the presentations, noting how their extreme force of nature.

Resources

<http://news.nationalgeographic.com/2016/10/extreme-weather-imax-film-stormchasers-glacier-calving-wildfires/>

http://www.weatherwizkids.com/?page_id=5

Angry Planet TV Episodes (email peter@peterrowe.tv for the password for free educator access):

<http://www.angryplanet.tv/Season01.html>

<http://www.angryplanet.tv/Season02.html>

<http://www.angryplanet.tv/Season03.html>