

Curriculum Unit
Title

With Great Power, Comes Great Responsibility
Natural Disasters, Climate Change and Human

Author

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KEY LEARNING, ENDURING UNDERSTANDING, ETC.

The students will understand: -the science vocabulary introduced and taught in this unit. – what is climate change and the causes
-how climate change increases the severity and frequency of disasters. – characteristics of various disasters (hurricane, tornado, volcano...)

ESSENTIAL QUESTION(S) for the UNIT

What is climate change?
How are disasters and climate change inter-related?
What can be done to decrease climate change resulting in a decrease in storms and storm severity?

CONCEPT A

Disasters

CONCEPT B

Climate Change

CONCEPT C

Human Impact

ESSENTIAL QUESTIONS A

What are natural disasters?
What are fires/floods/drought/blizzard?
What is a hurricane/tsunami/tornado?
What is a volcano/earthquakes?

ESSENTIAL QUESTIONS B

What is the difference between climate and weather? What is climate change?
How does climate change affect storms?

ESSENTIAL QUESTIONS C

What can be done to reduce storms and storm severity?
How can we prepare for disasters?

VOCABULARY A

natural disaster, tornado, hurricane, tsunami, volcano, flood, drought, forest fire, volcano, earthquake, blizzard

VOCABULARY B

Climate, weather, climate change, greenhouse gases, over population, methane, carbon dioxide, sea level rise, fossil fuels, atmosphere, resources,

VOCABULARY C

prepare, vulnerability, recovery, media, safety plans, evacuate, adaptability, response, mitigation, brownfields, bridging

ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES

What Can You Do to Stop Global Warming by Laurie David and Cambria Gorda, *Magic School Bus and the Climate Change* by Joanna Cole, *Magic School Bus Inside a Hurricane* by Joanna Cole, *Magic School Bus Weathers the Storm* by Joanna Cole, *Magic School Bus Blows Its Top* by Joanna Cole, *Voyage to the Volcano* by Joanna Cole, *Magic School Bus to the Rescue: Earthquakes* by Joanna Cole, *Magic School Bus Twister Trouble* by Joanna Cole, *Magic School Bus to the Rescue: Forest Fires* by Joanna Cole, *Wildfires!* By Seymour Simon, *Global Warming* by Seymour Simon, *Super Storms* by Seymour Simon, *Earthquakes* by Seymour Simon, *Tornadoes* by Seymour Simon, *Hurricanes* by Seymour Simon, *Volcanoes* by Seymour Simon, *I Can Read About Earthquakes and Volcanoes* by Deborah Merriens. I will also use SciKids and Crash Course videos from YouTube.