

# Green Iowa AmeriCorps Virtual Summer Camp Week 4: Climate Change July 27th - July 31st

Lesson 1: <i>The Science of Climate Change</i> by Cedar Falls Energy and Community .....	p. 2
Lesson 2: <i>Climate Safety Activity</i> by Clear Creek Amana Sustainable Schools.....	p.3
Lesson 3: <i>Climate Change Around the World</i> by Bondurant-Farrar Sustainable Schools.....	p.4
Lesson 4: <i>Climate and Health</i> by Clear Creek Amana Sustainable Schools.....	p.5-6
Lesson 5: <i>Climate &amp; Soil: How Water is Affecting Iowa</i> by Cedar Falls Land and Water Stewards.....	p.7
Lesson 6: <i>Climate Action</i> by Des Moines Energy and Community.....	p.8

## Lesson 1: *The Science of Climate Change*

Filmed by: Cece Mitchell

Instructors: Cece Mitchell, Hannah Bustamante, Elizabeth Smith

**Lesson duration:** 5 minutes

### **Materials needed:**

- Blankets
- Glass of water & ice cubes

**Suggested age group:** Any

[ X ] Parent assistance encouraged

**Description of lesson:** Learn about some of the science behind climate change and conduct experiments to see the effects for yourself!

### **Supplemental materials:**

- [What is climate change: facts for kids](#) This website shares more information about climate change!
- [Printable Factsheet: Climate Change](#) This website is more for older kids and goes into more detail about climate change. It's a great way to expand your knowledge!
- [Climate Facts for Kids](#) This website provides some basic information about climate change as well as different "climate zones" on our planet!

## Lesson 2: Climate Safety Activity

**Lesson duration:** 30 minutes (No Video)

**Materials needed:**

- Paper
- Crayons/colored pencils/paint/etc

**Suggested age group: Any**

**Description of lesson:** Draw a picture of something you think will be impacted by climate change. It could be the Earth, an animal, a person or something else. Think about why and how this thing will be impacted and what you can do to help!

You can submit pictures to us by email at

[greeniowa.programming@gmail.com](mailto:greeniowa.programming@gmail.com) or post on instagram or facebook and use the hashtag **#GIASummerCamp2020**



## Lesson 3: Climate Change Around the World

Filmed by Megan Boyd

Instructors Rebekah Akers & Michael Van Osbree

**Lesson duration:** 10 minutes

### **Materials needed:**

- Computer to look at the world map climate change simulations

**Suggested age group:** 4th-8th grade  
[ ] Parent assistance encouraged

**Description of lesson:** The entire planet is being affected by climate change, but certain areas and specific groups of people are being affected more than others. In this lesson, we will explore how climate change has affected the globe over time and how different parts of the world are impacted every day.

### **Supplemental materials:**

- a. World Population Map [World Population | An Interactive Experience - World Population](#)
- b. NASA Climate Change Time Machine [Climate Time Machine](#)

## Lesson 4: *Climate and Health*

Filmed by Megan Hill

Instructor: Megan Hill

**Lesson duration:** 10 minutes - an hour or more

**Materials needed:**

- Computer
- Internet access

**Suggested age group:** 5th grade and up

[ ] Parent assistance encouraged

**Description of lesson:** Climate change will affect every person to varying degrees. This lesson will explore vulnerability, populations who will be more vulnerable to the health risks related to climate change and the possible impacts on human health that will result from climate related issues such as air quality, water quality, and an increase in overall temperature.

**Supplemental materials:**

a. Video links for more information:

- [How Climate Affects Human Health-CDC](#)
- [Climate Change Affecting our Health?-TEDx Talks](#)
- [Cause and Effects of Climate Change-National Geographic](#)
- [Climate Change will Impact Health-NRDC](#)
- [Human Health Affected by Climate Change-BBC](#)
- [The Link Between Climate Change, Health, and Poverty-TEDMED](#)

b. PDF of slideshow:

- [PDF of slideshow on Google Drive](#)

c. Websites for more information used as sources:

- [Climate Health Assessment](#)
- [WHO](#)
- [CDC](#)
- [Pan American Health Organization](#)
- [University of Washington](#)
- [NOAA](#)
- [National Geographic](#)
- [The Climate Reality Project](#)
- [National Academy of Medicine](#)
- [NRDC](#)
- [American Public Health Association](#)
- [Yale](#)
- [EPA](#) (previous version)

## Lesson 5: Climate & Soil: How Water is Affecting Iowa

Filmed by Kyla Ford

Instructors: Chase Boddicker

**Lesson duration:** 10-15 minutes

**Materials needed:**

- **Computer**

**Suggested age group:** 5th-7th Grade

**Description of lesson:** In this lesson we will be exploring Iowa's various climate related issues surrounding the topic of water. This will mean defining climate change and explaining how water is contributing to statewide climate change and is threatening various public safety and environmental conditions.

**Supplemental materials:**

- [World of Change: Global Temperatures](#)
- Iowa Climate  
[https://www.weather-us.com/en/iowa-usa-climate#climate\\_text\\_1](https://www.weather-us.com/en/iowa-usa-climate#climate_text_1)
- Iowa DNR
- [How climate change makes hurricanes worse](#)

## Lesson 6: Climate Action

Filmed by Matt Voss

Instructors: Matt Voss

**Lesson duration:** 15-20 minutes

### **Materials needed:**

- Computer with Powerpoint and internet

**Suggested age group: 4th graders and up**

[X] Parent assistance *helpful*

**Description of lesson:** This lesson will focus on the three types of climate action occurring in the world, and then provide the student with 3 types of actions they can take to help! They should be encouraged to research, learn, and talk more about the topic!

### **Supplemental materials:**

- a. There are various websites on the Powerpoint that goes with the lesson - Parents can help the student open these up and understand them, as they might be a little difficult to understand sometimes for young students.