

Massachusetts Climate Careers: Powering the Future Understanding and Combating Climate Change



Youth Lead the Fight Against Climate Change



Youth climate strike. Creative Commons









Today's Agenda

- Climate Change
- The Big Question and My Climate Goals
- Today's Group Activity
- Climate Watch and Discussion
- Closing Activity





Opening Activity

Climate Change in the Headlines







How does climate change affect my life and community, and how can I actively participate in its solution?







When you complete this lesson, you'll be able to:

- 1. Identify and explain the consequences of climate change.
- 2. Identify at least three ways your community can address climate change.
- 3. Discuss how you can help combat climate change today and in the future.



Climate Watch: Video



Climate Watch Discussion

Share what you learned from the video, and listen to your classmates' perspectives.

- 1. What interested you most in the video?
- 2. How do you see yourself being part of the solution?

What Causes Climate Change?

Greenhouse gases in the atmosphere are like a blanket wrapped around the planet, keeping heat in.







Greenhouse Gas Effect



Video: EPA.gov



Types of Greenhouse Gases



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Consequences: Health Risks—Extreme Heat

Fatalities by Weather-Related Hazards 2006–2015





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SEPA Emergency Events Can Impact Your Indoor Air Quality

Consequences: Health Risks— **Air Quality**



Image: EPA.gov

Learn more at epa.gov/emergencies-iaq

Consequences: Rising Sea Levels



Climate Change Impacts Communities



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Climate Change Impacts Communities

Share what you learned from the video, and listen to your classmates' perspectives.

- 1. What are some of the ways the flooding impacted individuals?
- 2. What impact did it have on the community?
- 3. Consider the image of potential sea-level rise in Boston. What impact will changes like that have on communities there?



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Today's Group Activity

Building Boston's Climate Resilience







Key Points

- Climate change is a long-term shift in global or regional climate patterns, primarily caused by humans.
- Greenhouse gasses in the atmosphere trap heat, making the planet warmer.
- Climate change can lead to health risks from extreme heat and worsening air quality, extreme weather, and sea level rise.
- I can take action to slow climate change.





Closing Activity

Before You Go

- What is one change you can make immediately that will slow climate change?
- 2. What are three ways your community can help address climate change?

Lesson Exit Ticket

Reflect on What You Learned Today

Write a sentence or two to share your thoughts about the following questions.

- 1. What are two consequences of climate change?
- 2. In what way does climate change affect your life?
- 3. How does (or how can) your community address climate change?
- 4. What is one way you will help combat climate change?



