

Let's Talk About Climate: Using Climate Education to Support Student-Centered Learning Across Curricula

March, 1, 2022



Webinar Tips



Close all programs & browsers to maximize bandwidth



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For technical assistance use the Q&A feature



The recording, slides, resources & certificate will be sent by email



Meet Your Presenter



Rhea May

Science Instructional Coach
One Step Curriculum Writer





What We'll Discuss Today



- 💧 The research that supports the importance of climate education to our students' futures
- 💧 How climate education across curricula can naturally utilize how students learn best
- 💧 Practical strategies to incorporate climate science across curricula
- 💧 Real-life solutions through technology and innovation that reduce the impact of climate change
- 💧 Resources to support climate education across curricula





Why should climate change be taught across curriculum?



Students today are *“the first generation to feel the effects of the climate crisis, and the last who can do something about it.”*

~ former Seattle Mayor Mike McGinn



Why should climate change be taught across curriculum?



If 16% of high school students in high- and middle-income countries were to receive climate change education, we could see a nearly 19 gigaton reduction of carbon dioxide by 2050.





Climate Education & How Students Learn

Students learn best when curriculum is:

- Inquiry-based
- Experiential
- Situated in real, local context





Practical Strategies

- Provide emotional support
- Focus on the local
- Choose a relevant cross-curricular project theme
- Focus on solutions-based education





Solutions-based approach



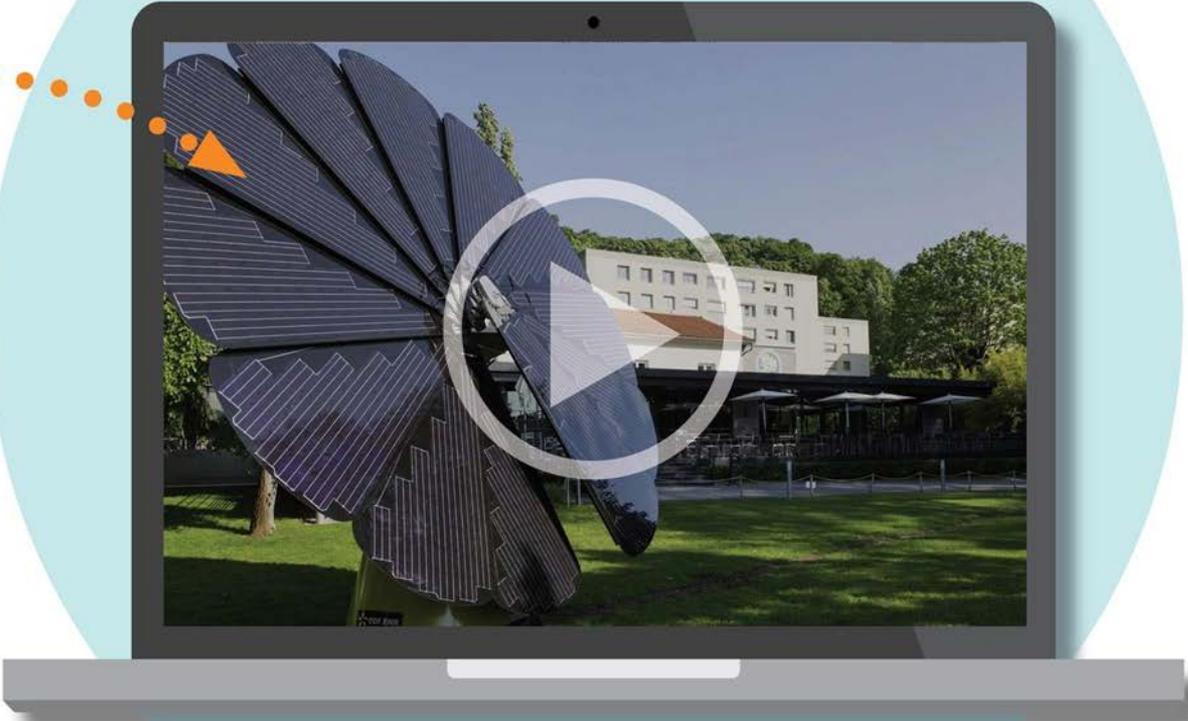


Real-Life: Innovative Solutions





Real-Life: Innovative Solutions





Impact of Climate Change





Real Life: Technology & Innovation



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Real Life: Technology & Innovation





Real Life: Humanitarian Impact





Subject-Specific Strategies

Art

- Study what makes visual campaigns effective

Social Studies

- Broaden topics to include effects of human activities
- Explore legislative process of landmark environmental laws

ELA

- Create narratives based on climate change feelings and/or learning
- Explore persuasive writing through encouraging policy changes in local community
- Debate the pros and cons of new technology

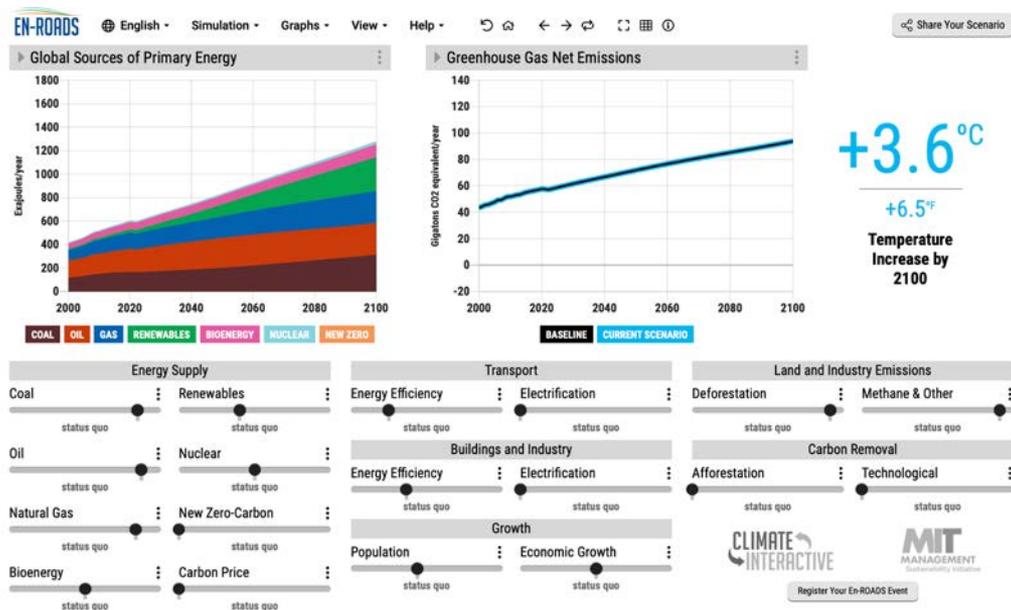




Subject-Specific Strategies

Math:

- [En-ROADS](#)
- Statistical analysis to measure tree density like foresters
- Collect data of change students notice in community





Educator Resources

- Climate.gov's [Teaching Climate](#)
- NASA's [Global Climate Change](#), [Climate Kids](#), [Climate Change Educator Resources](#)
- NOAA's [Climate Education](#)
- One Step

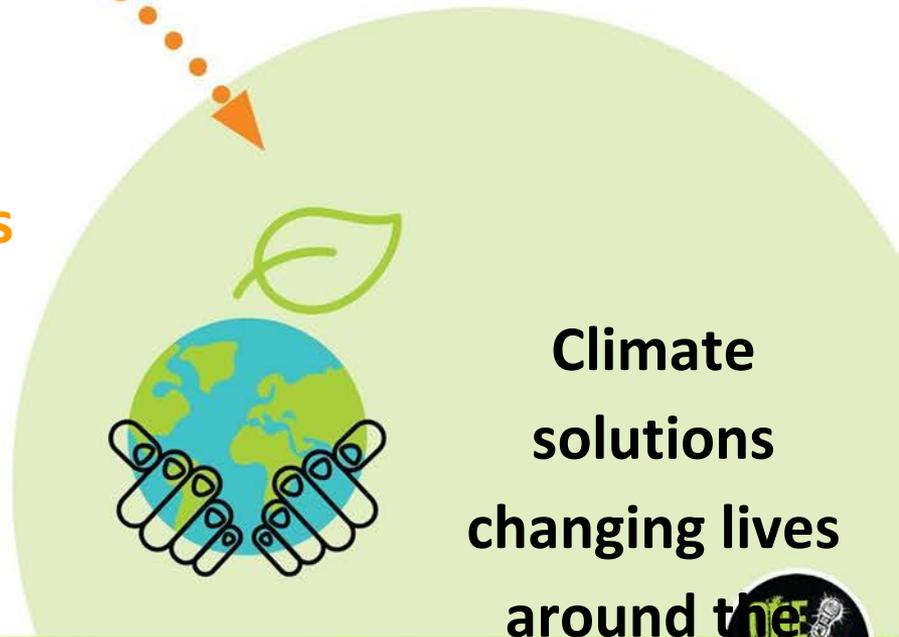




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USE ONE STEP ACROSS THE CURRICULUM TO:



Promote rich class discussions about science, technology, and the environment



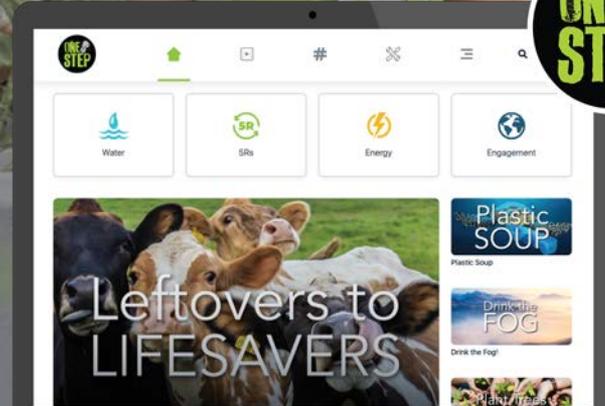
Celebrate innovation and problem solving



Empower students to be changemakers



Give students the knowledge and skills they need to be creative scientific thinkers





Teaching Materials

- 5E, standards-aligned lessons featuring climate and environmental science topics
- Projects, crafts, and experiments
- Scaffolds and vocabulary support for English learners
- Tools for students to track their sustainable activities



ENGAGEMENT = ACTION

Inspiring the future,
together with One Step

#StompOutCarbon





Ready to Join the One Step Movement?

BECOME A BETA TESTER!



SIGN UP NOW

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**WHAT
QUESTIONS
DO YOU
HAVE?**



**ONE
STEP**

***Thanks for joining
us today!***