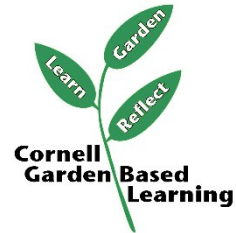




# Cornell Cooperative Extension Cornell Garden-Based Learning

## Gardening in Our Warming World: Youth Grow!



*“We never could have loved the earth so well if we had had no childhood in it” --George Eliot*



Students protest at the United States Capitol. Credit Ting Shen for The New York Times, March 15<sup>th</sup>, 2019 <https://www.nytimes.com/2019/03/15/climate/climate-school-strikes.html?action=click&module=Well&pgtype=Homepage&section=Climate%20and%20Environment>

# The “Why” – Youth will:

- Demonstrate self-awareness and level of comfort in taking control of one’s actions
- Recognize that a healthy global climate is vital to life, their future and systems that rely on each other
- Understand climate change science and apply sustainability through hands-on experience

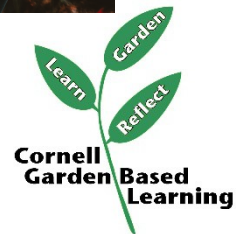
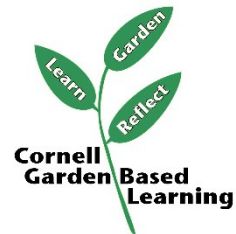


Photo by [Annie Spratt](#) on [Unsplash](#)

# The “Why” – Youth will:



- Identify human activities that impact climate and ways to responsibly address global and local climate issues and sustain healthy communities
- Plan for resiliency, explore and initiate ways to teach and lead others to do the same



# Curriculum Design

- ✓ Inquiry-based, real world activities focusing on sense of place and taking positive action toward climate issues
- ✓ Activities follow the 4-H Thriving Model and 4-H Guided Inquiry format, designed for Beginners, Intermediate and Advanced skill levels
- ✓ STEM based activities cover the science of climate change, environmental sustainability, horticulture, and projects in engineering, technology, art
- ✓ Activities meet Common Core and Next Generation Science Learning Standards
- ✓ Complements Cornell Garden-Based Learning's "Gardening in a Warming World" adult curriculum and Seed to Supper Youth Corps program



# Guided Inquiry Focus

- ✓ A Systems Thinking approach, focusing on environmental sustainability, garden-based learning and food systems
- ✓ Self-reflective process encouraging youth to better understand themselves and the ideas of others, and how to inspire others to work towards positive change
- ✓ Learning through research of real-world global resiliency and interaction with people in local communities who inspire positive change
- ✓ Opportunities for intergenerational engagement

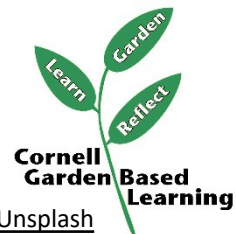


Photo by [Anna Earl](#) on [Unsplash](#)

# Four Conceptual Units



- ❖ What's My Story?
- ❖ What Do I Know?
- ❖ Community Action
- ❖ Let's Do It!

# Unit One Learning Activities

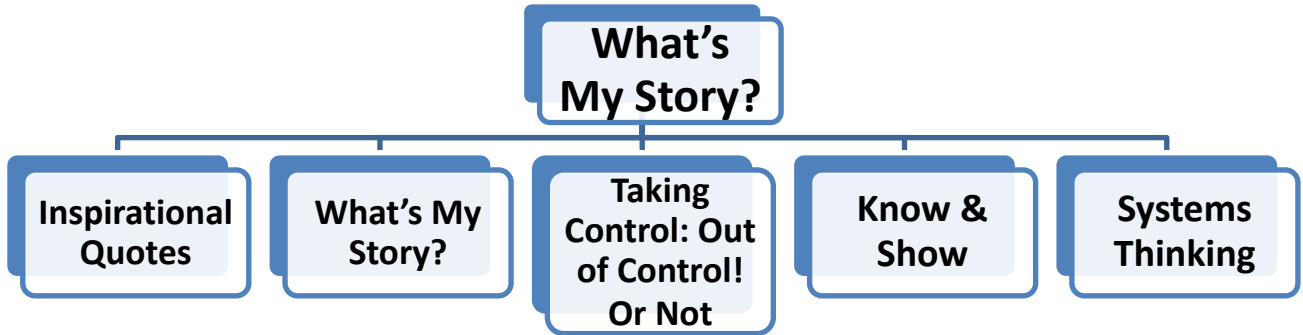


Photo by Nurpalah Dee



# Unit Two Learning Activities

**What Do I Know/  
Need to Know?**

**My Carbon  
Footprint**

**Exploring  
Sustainability**

**Climate  
Resiliency**

**Climate  
Change in  
the Garden**

**Ways to Grow  
Food:  
Hydroponics,  
Aeroponics, etc.**

**Bee-coming  
a Bee  
Rancher**

**Permaculture**

# Unit Three Learning Activities

## Community Action

Action  
Takers

Peer  
Interviews

Role-play  
Interview

Video  
Production



# Unit Four Learning Activities



Youth Climate Summit 2019, CCE Delaware

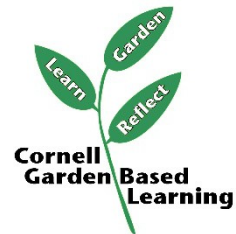
*“When written in Chinese, the word “crisis” is composed of two characters. One represents danger and the other represents opportunity.” –John F. Kennedy*





## Acknowledgements

Thank you to the Cornell Cooperative Extension Educators, Master Gardener Volunteers and New York State 4-H staff who helped inspire, review and pilot the activities in “Gardening in Our Warming World: Youth Grow!” and the authors and contributors of the Gardening in a Warming World, Master Gardener Volunteer Learning Library, Youth Grow and One Seed at a Time: Alleviating Climate Change through Youth Community Action in the Garden curricula for guiding its vision and purpose.





*Cornell Cooperative Extension is committed to educating stakeholders about this intensifying challenge and helping citizens implement the strategies that are needed to adapt to and mitigate climate change.*

