FOUNDATIONS OF EDUCATION FOR SUSTAINABILITY & ACTION UPDATES

Presenters: Rosalie Morillo and Jaimie Cloud

FOR SCHOOLS
SUSTAINABLE JERSEY®
• CERTIFIED •
A Brighter Future, One School at a Time

Webinar Agenda

1. Foundations to Education for Sustainability
2. EfS Lesson plans Exemplars
3. New Changes to EfS Action
4. Q & A
5. Sustainable Jersey Announcements

The Foundation of Education for Sustainability

Inspiring young people to think about the world, their relationship to it, and their ability to influence it in an entirely new way.

Jaimie P. Cloud, President
www.cloudinstitute.org

The Cloud Institute for Sustainability Education

We wouldn't need Education *for Sustainability* if there was no such thing as *un*-sustainable

Sustainability

"The possibility that human and other life will flourish on the planet forever"

John R. Ehrenfeld

So What Kind of Future do we Want?

What do we want to sustain?

For whom?
For how long?

Sustainability

"A sustainable society
is one that is far-seeing enough,
flexible enough, and wise enough
not to undermine either its physical
or its social systems of support."

Donella Meadows

What do teaching and learning have to do with sustainability?

What *is* education for?
(In the service of what?)

Think About It

Every sector

food, buildings, business, government,

higher education, urban and rural planning…

is making the shift toward sustainability

and even regeneration.

Where do they think they are going without all the children, young people and their teachers?

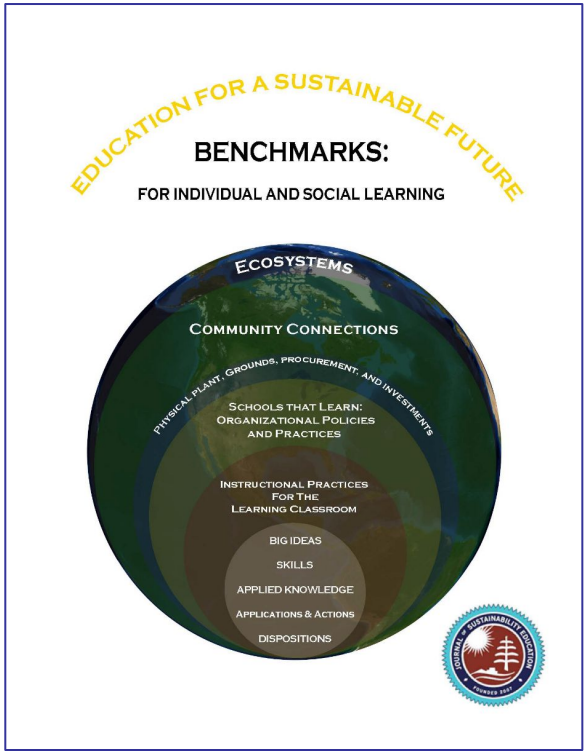
Why Educate for Sustainability?

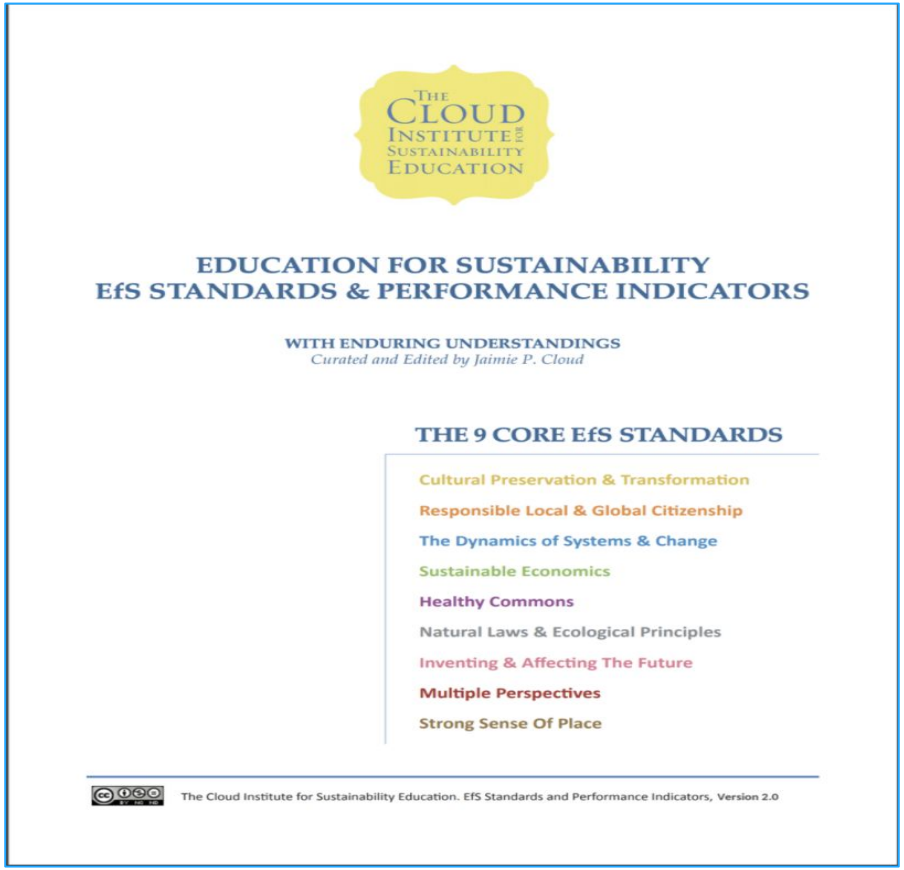
We have to ***learn*** how to live well in our places without undermining their ability

to sustain us over time.

The foundations of our knowledge, skills, and habits of mind are cultivated in our schools.

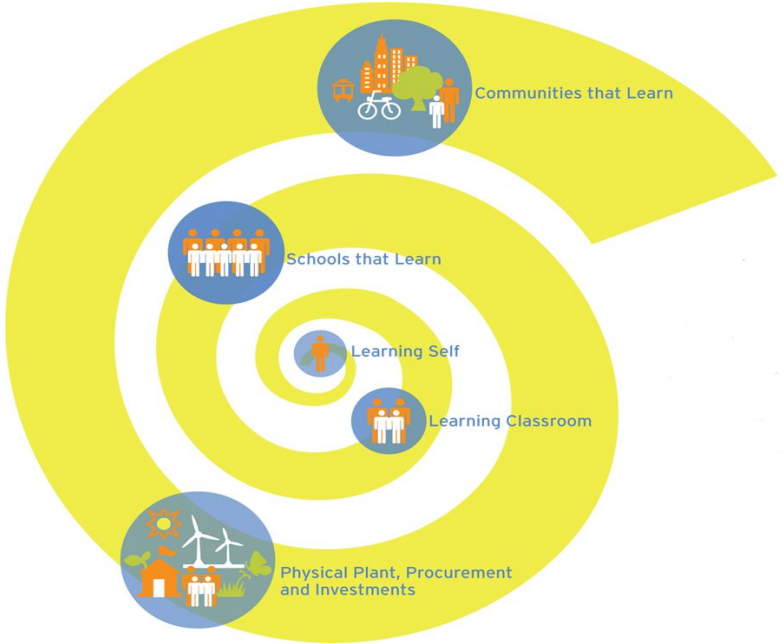
EfS Benchmarks



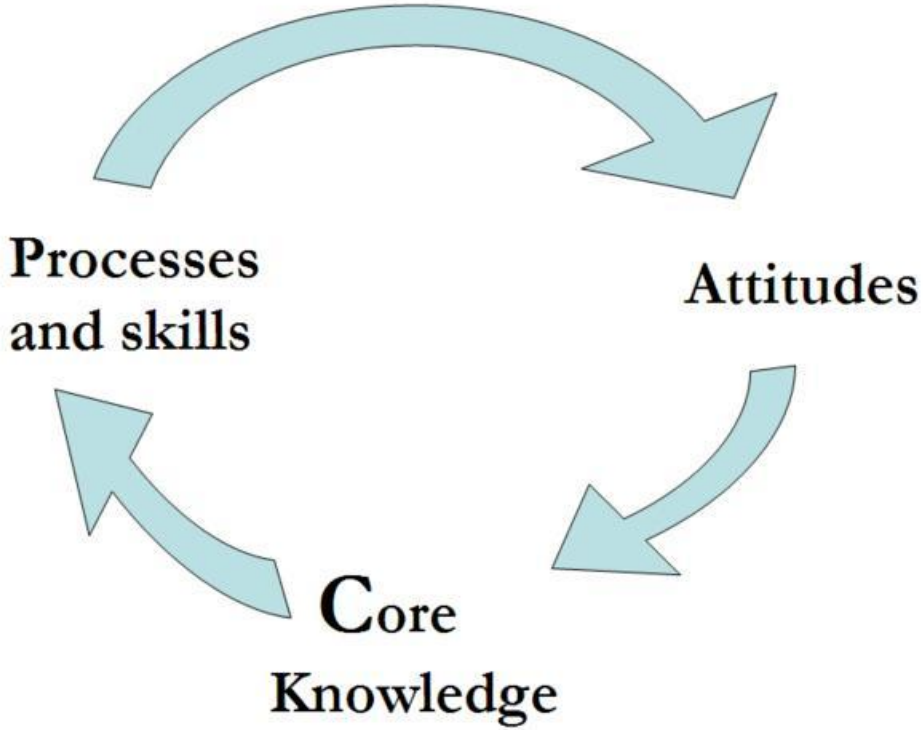


The Cloud Institute

Education for Sustainability Framework

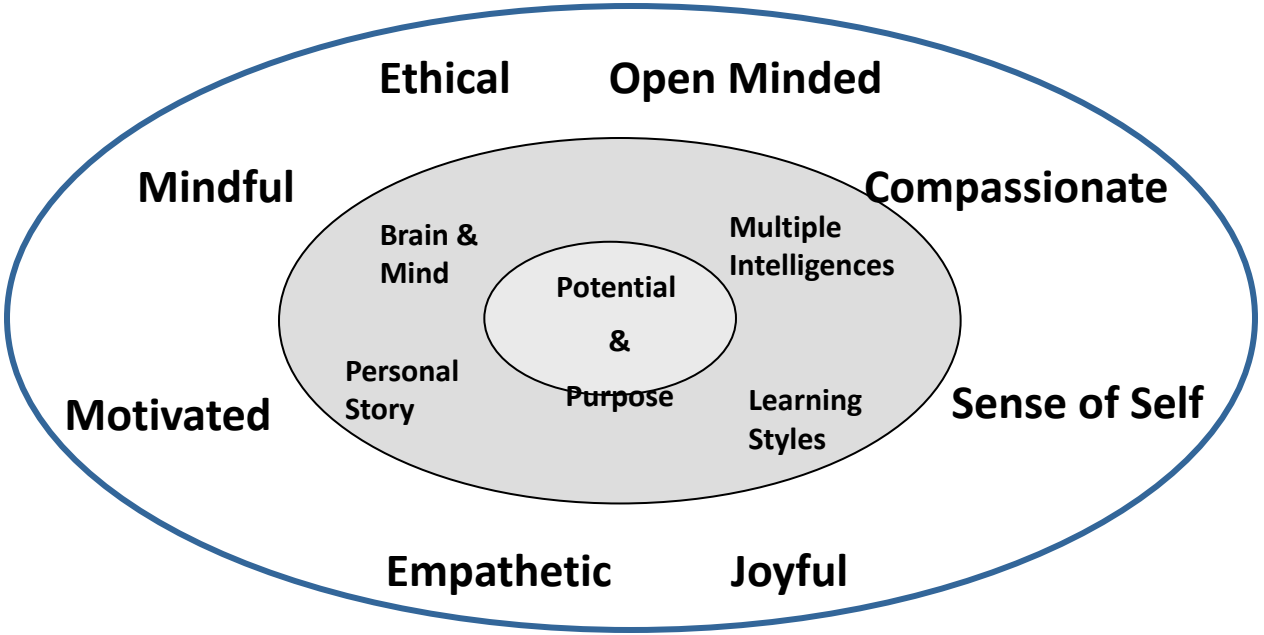


The Learning Self



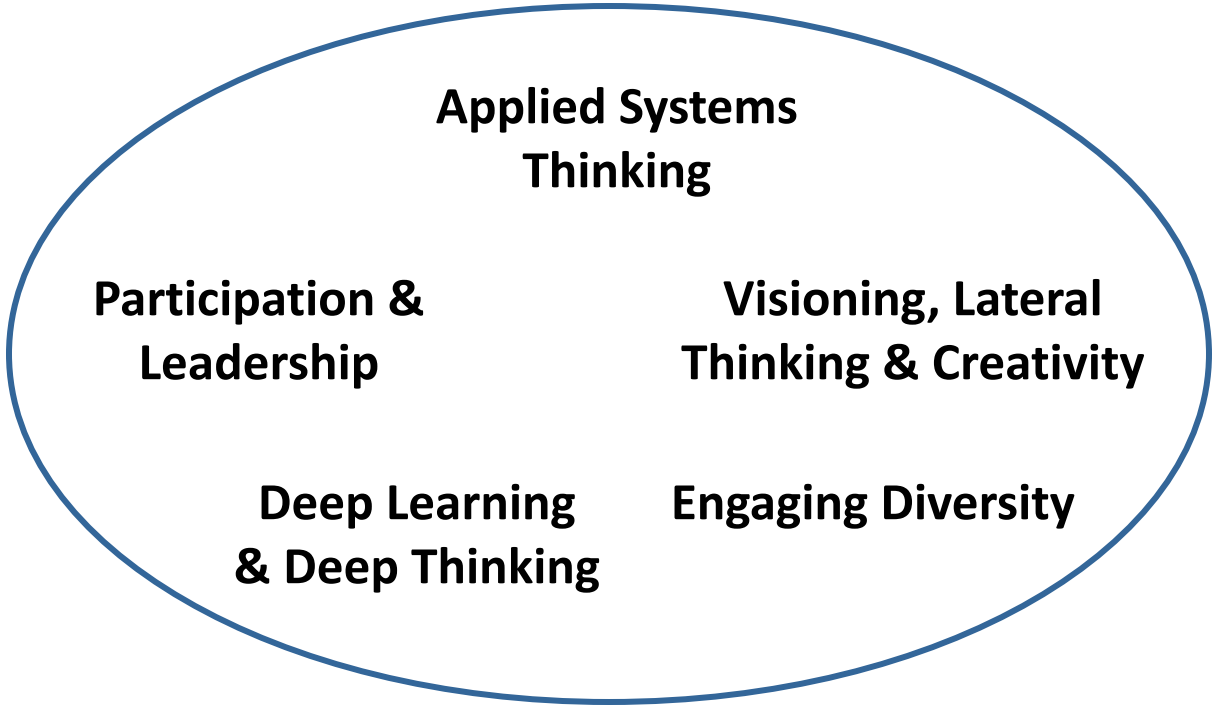
The Learning Self

Core Attitudes



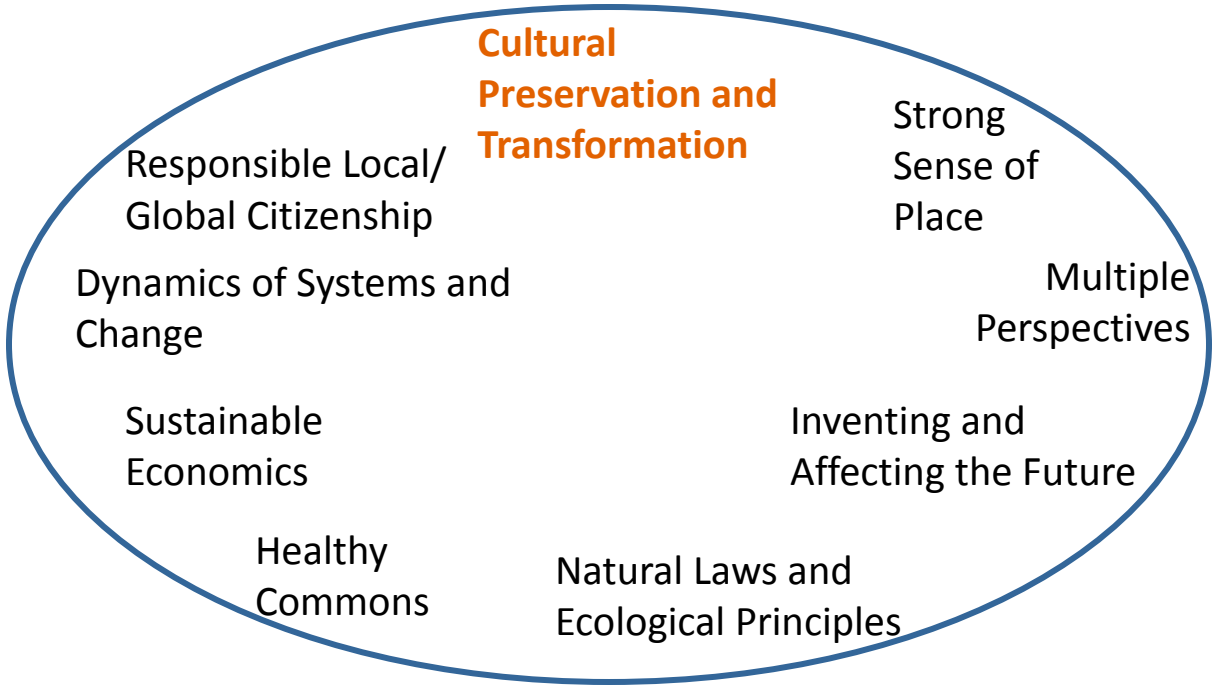
The Learning Self

Core Processes and Skills



The Learning Self

Core Knowledge



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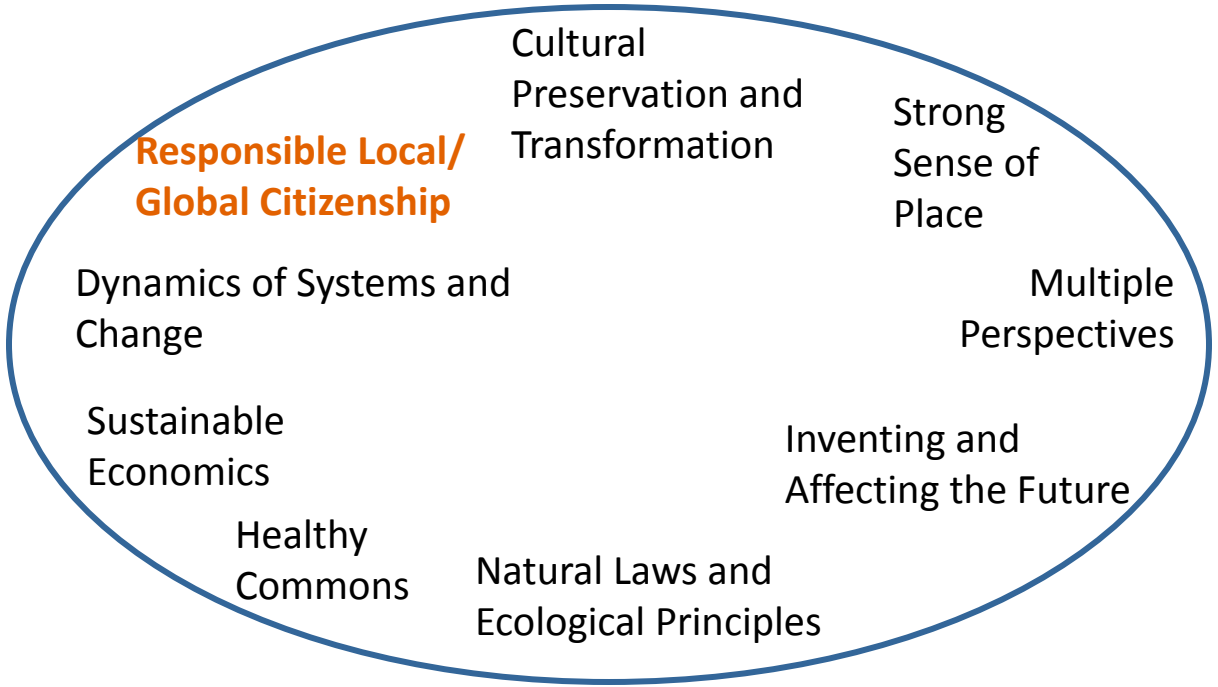

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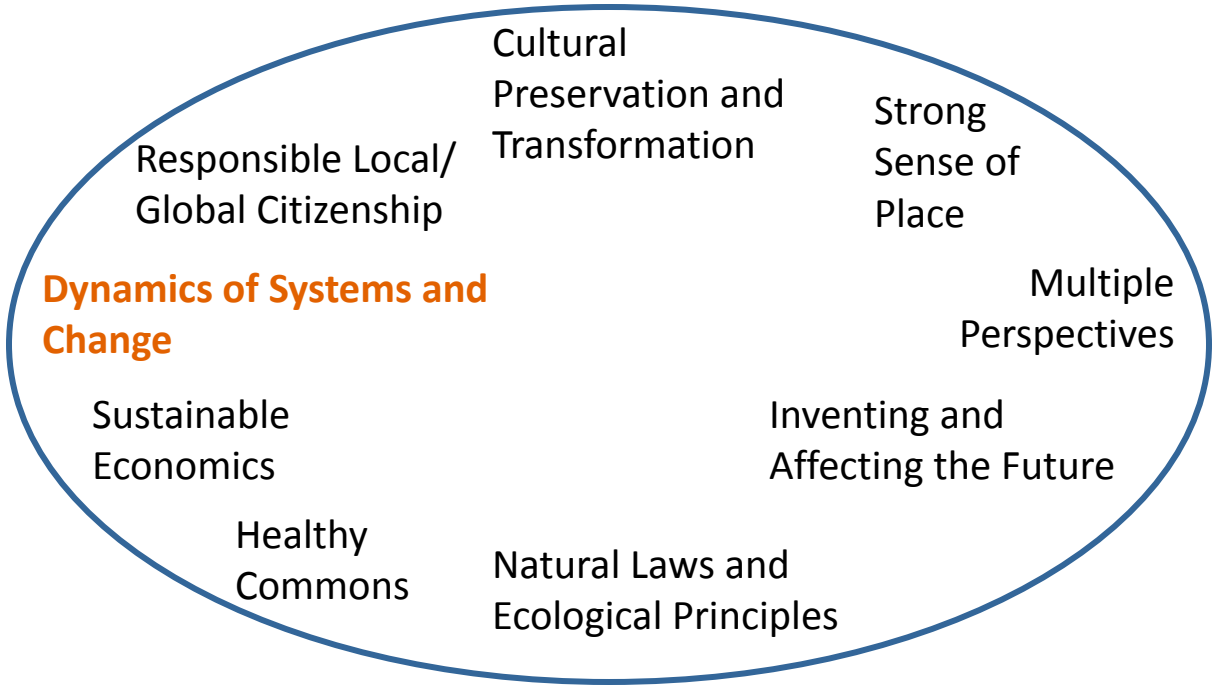

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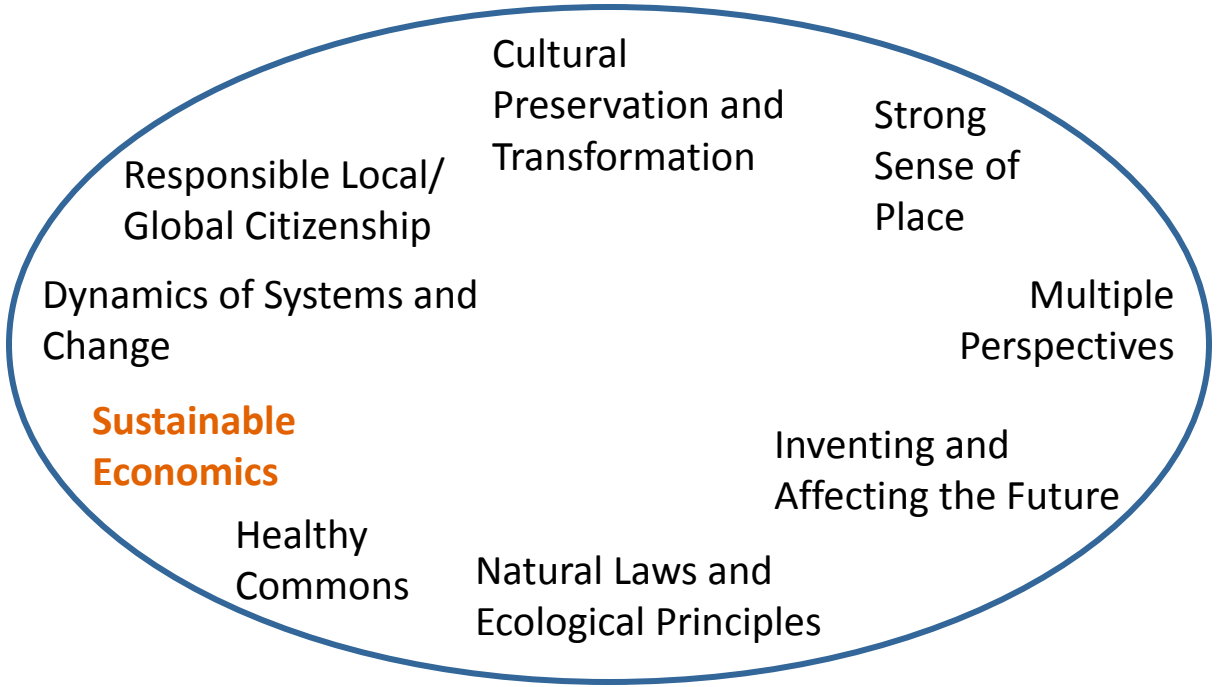

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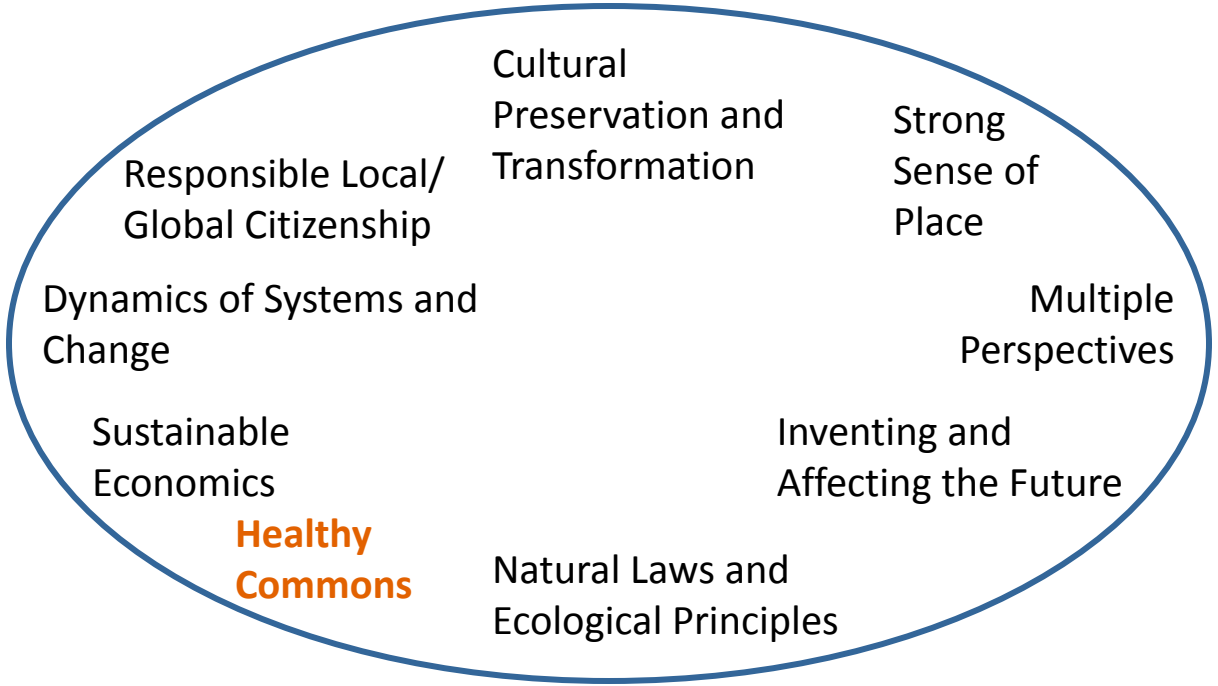

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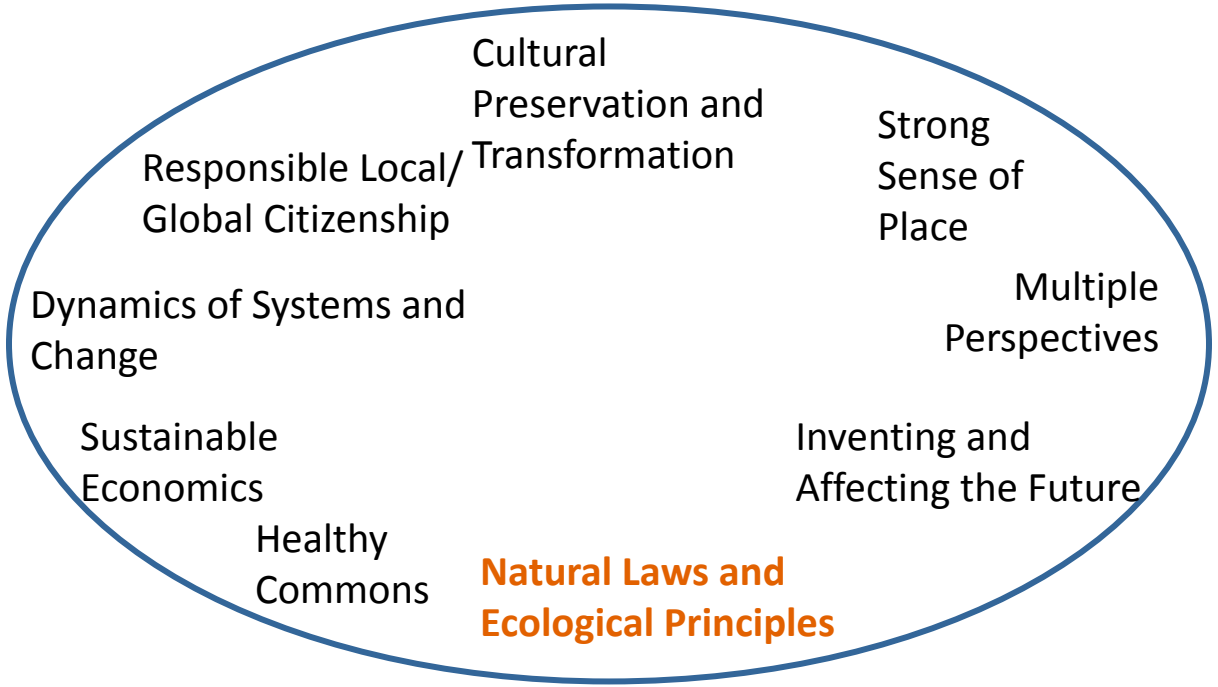

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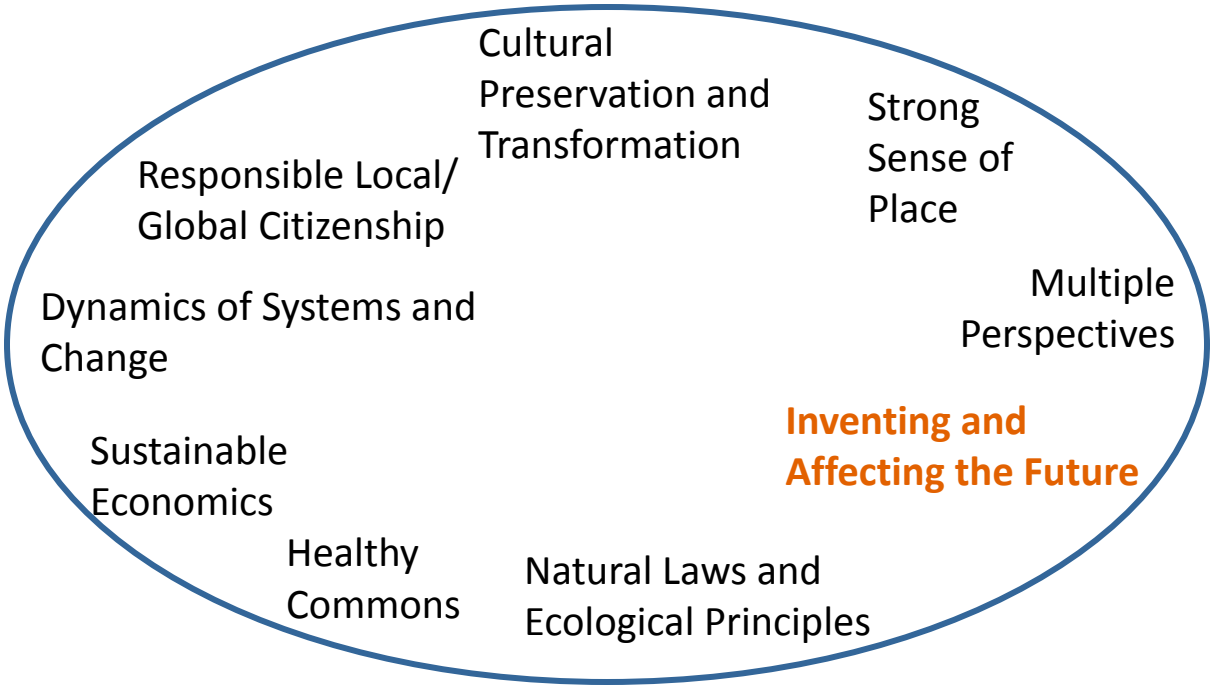

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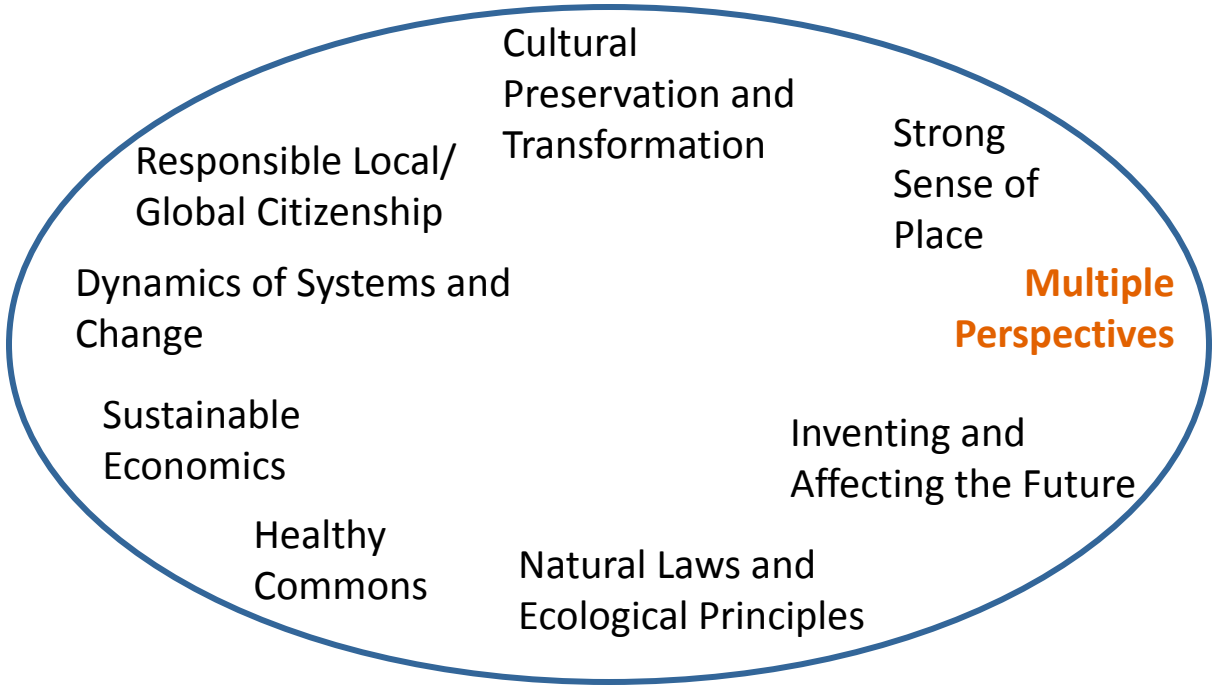

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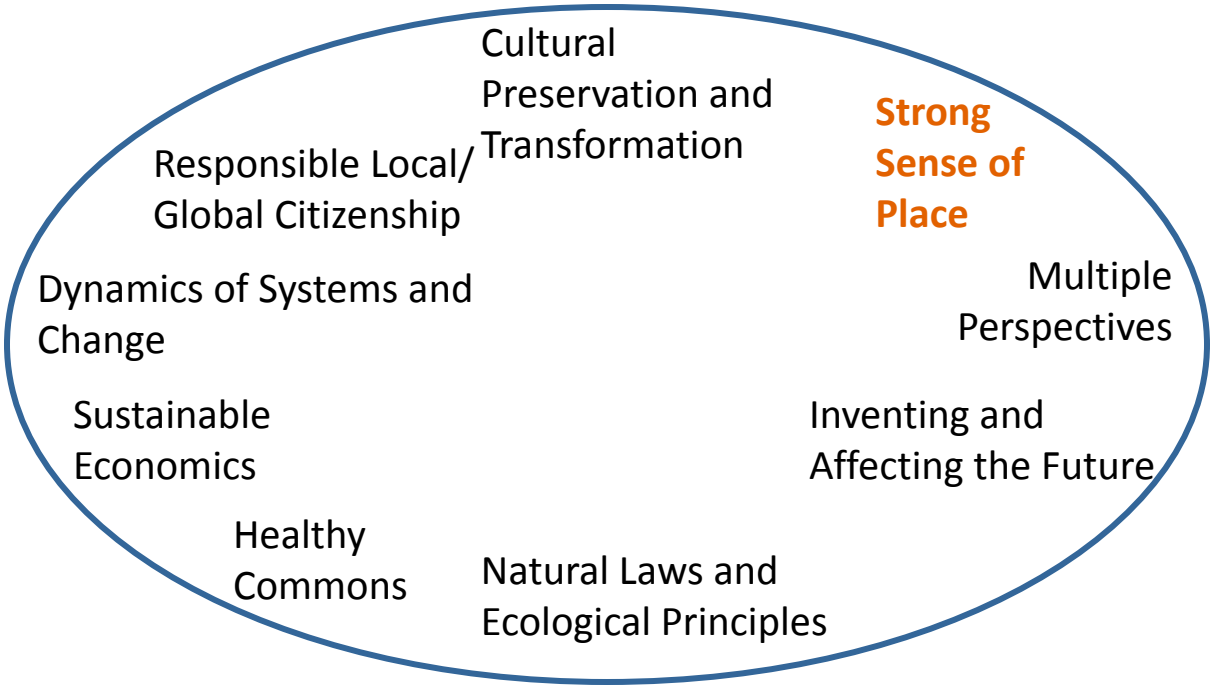


Stocks and Flows:

Stocks are entities that can accumulate or can be depleted, such as water in a bathtub.

Flows make stocks increase or decrease,

like a faucet or drain affects

the level of water in a bathtub.

Stocks and Flows:

Goal: Resilience/Regeneration

Example of a STOCK: $$ in a savings account

OUT FLOW: Withdrawal Rate

IN FLOW: Interest/Deposit Rate

If we withdraw more $$ faster,

than the interest or deposit rate,

We will run out of $$ +…

We call that unsustainable.

Stocks and Flows:

Goal: Resilience/Regeneration

Example of a **STOCK: FISH**

OUT FLOW: Death/Catch Rate

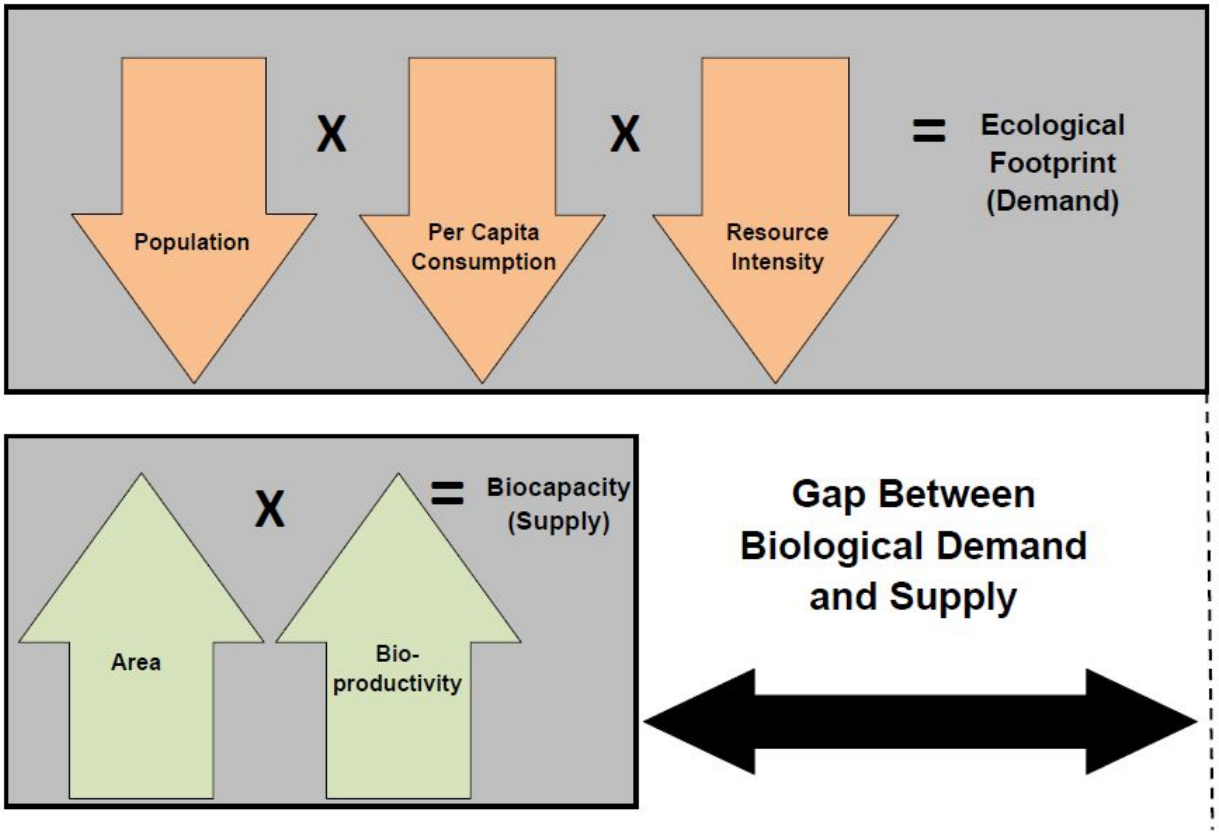
IN FLOW: Replenishment Rate

If more fish are removed from the ocean faster,

than the ocean is able to replenish them,

There will be no more fish… +…

We call that unsustainable.



Original citation (2006): www.footprintnetwork.org/download.php?id=7654 - *updated/adapted 2014*

Stocks and Flows:

Goal: Dynamic Stability

Example of a **STOCK**: **CO2/Greenhouse Gases**

OUT FLOW: Plants, trees, oceans/sequestration

IN FLOW: Emissions

If we emit more CO2 etc. into our atmosphere faster, than the planet can absorb them,

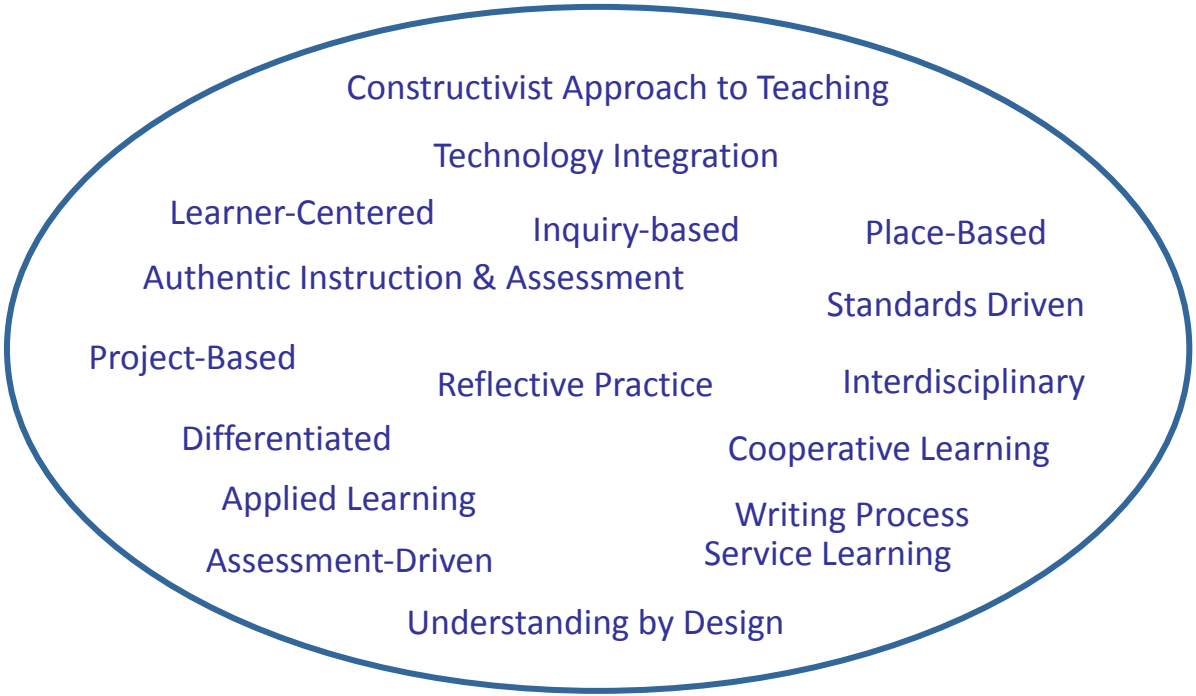
the accumulation will disrupt Earth's chemical balance and cause changes to our climate.

We call that unsustainable.


CO_2 in the Atmosphere
CLIMATE ED: Think Like a Bathtub
with Dr. Linda Booth Sweeney

The Learning Classroom

Class as a Learning Community



Let’s look at an example of an EfS lesson

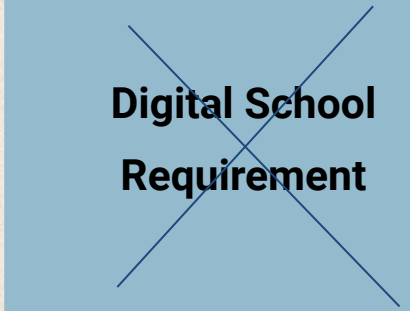
Lesson Overview: Math Lesson Carbon Footprint

- **Enduring Understandings:**
  - We are all in this together.
  - Recognize and Protect the Commons
- **Objective:**
  - Students will identify their carbon footprint, analyze their activities, and how they can make a change for the better.
- **Activities**:
  - Building background on what is a carbon footprint
  - Record and compare numerical data using Nearpod and Jamboard
  - Graph and analyze as a class and find the average carbon footprint as a class
  - Determine at least one change that can be made to lower the class carbon footprint
  - Create a slide presentation highlighting ways to reduce their carbon footprint
- **Assessment**:
  - Share and compare with the class their carbon footprint reduction solution
- **Closing activity**:
  - Why is it important? How can you start to make this small change?

New Changes to EfS Action!

Lesson Plan Template

Assessment



Q & A

NEW JERSEY STUDENT CLIMATE CHALLENGE

FREE OPPORTUNITY AVAILABLE TO NEW JERSEY PUBLIC SCHOOL STUDENTS IN GRADES 6 TO 12

TEACHER REGISTRATION OPENS

OCTOBER 10

Teacher registers student team who will complete a school or community project that addresses a cause or impact of climate change

STUDENT ENTRIES DUE

APRIL 10

Teams create a digital story video about the project and submits it by April 10, 2024

AWARDS CEREMONY

EARLY JUNE

Winners are recognized at an Awards Ceremony hosted by First Lady Tammy Murphy and receive grants to advance their climate education initiatives ranging from $3,500 to $500

bit.ly/NJStudentClimateChallenge

SUBJECT to CLIMATE

Become a Lead Educator for Climate Education!

JOIN THE NJ TEACHER TASK FORCE TO DEVELOP EXEMPLAR LESSONS FOR THE NJ CLIMATE EDUCATION HUB

The Hub launched in 2022 through a collaborative effort with SubjectToClimate, Sustainable Jersey,The TCNJ School of Education and NJ Audubon.

https://bit.ly/STCTeacherTaskForceApp

Schools within the service territories of PSE&G, NJNG, SJG or ETG are eligible

empowered SCHOOLS

students generating change

AN ALLIANCE TO SAVE ENERGY PROGRAM

The Empowered Schools program - formerly known as PowerSave Schools - provides free support and resources to educate students about energy efficiency and save money on your school's energy costs.

Learn More Here

APPLYING FOR CERTIFICATION IN 2024?

Submission Deadline:

- #1 January 12
- #2 March 22
- #3 June 13

bit.ly/SchoolsCertCycle

SUSTAINABLE JERSEY GRANTS PROGRAM

FOR SCHOOLS
SUSTAINABLE JERSEY®
• CERTIFIED •

Cycle Funded By:

njea

Sections 1-3 of the Application are Due:
Monday, October 30

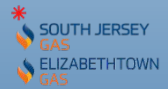
Informational Webinar

An informational webinar was held on September 19 that provided an overview of the grants cycle, tips on crafting a successful proposal, and a walk-through of the online application. You can register to watch the webinar recording here and download the presentation slides here.

Sustainable Jersey for Schools Underwriters and Sponsors

Program Underwriters

Corporate Sponsors



*Digital Schools Underwriters and Sponsors