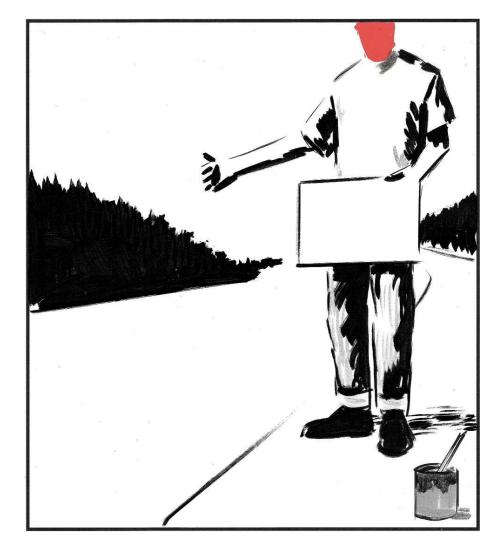
Tenerife, 28th oct-2nd nov 2024







- 1 NAME
- 2 NAME MEANING (if not, research!)
- 3 WHERE DO YOU COME FROM
- 4 SUBJECT AND LEVEL YOU TEACH
- 5 WHAT WOULD YOU LIKE TO VISIT



WEWATER environmental education



Is about:

- How to get students motivated and engaged with this topic
- + Resources that inspire us to integrate this transformative approach
- Tips and games for in-class conversations and practises
- One more step as SUSTAINABILITY AGENTS

... sharing the impact while keeping it positive and future focused





Summary:

WHY ENVIRONMENTAL EDUCATION?

INTRO TO SYSTEMS THINKING

HOW TO TURN ECO-ANXIETY INTO CLIMATE ACTIVISM?

When our actions lead us to hope.

FAST FASHION AND SLOW FASHION

DIY workshop to recycle textile waste, and explore sustainable alternatives.

Excursion to:

SAN BENITO COMMUNITY GARDEN

SCHOOL'S PERMACULTURAL GARDENS UPCYCLING ORGANIC WASTE: NATURAL SOAP

A "close the loop" workshop to transform used oil into a natural soap

CREATIVE WORKSHOP FAIR

EVALUATION & DIPLOMA

environmental education
... learning and acting for better future



where do we come from?
where are we going?
where do we want to go?



where do we come from?

where are we going?

SCHOOL'S PRESENTATION

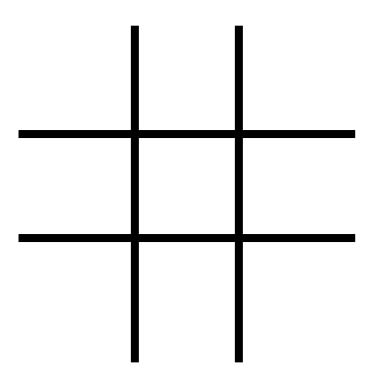
Share with the group your personal goal.

And, what about your school?

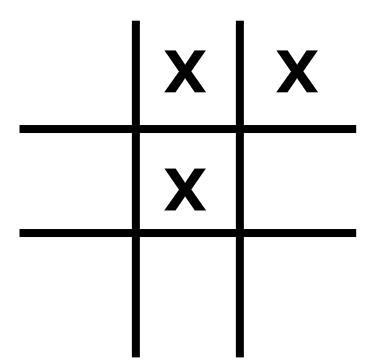
Do you think it is being more in the trend of TRADITIONAL or SUSTAINABLE BEHAVIOR?

Mention challenges and solutions related to sustainability currently happening in your school.

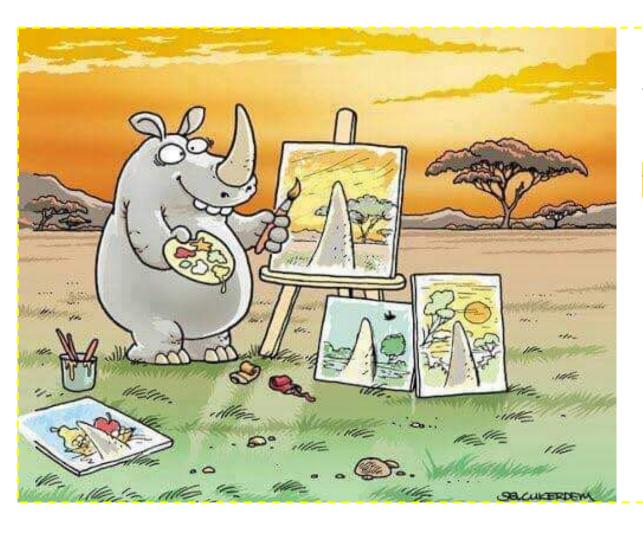




the model matters

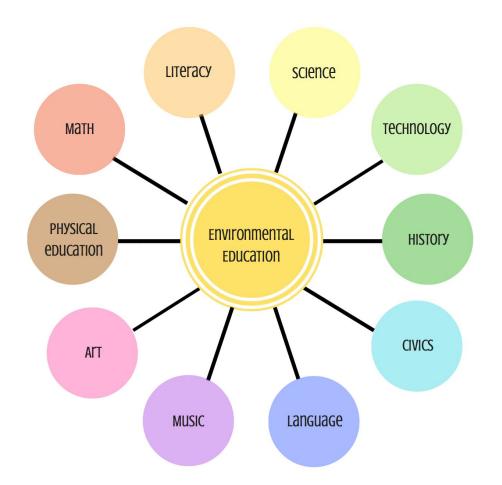


the model matters



We don't see things as they are, we see things as we are

Anais Nin



what do we understand by environmental education?

Environmental education is a process that allows individuals to explore environmental issues, engage in problem solving, and take action to improve the environment.

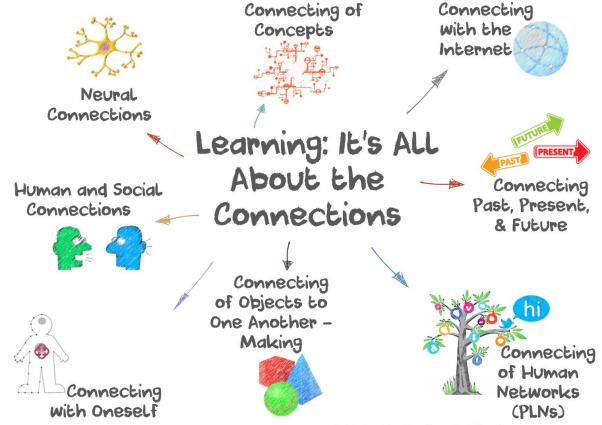
As a result, individuals develop a deeper understanding of them and have skills to make informed and responsible decisions.

environmental

stewardship



how do we make this change of direction?

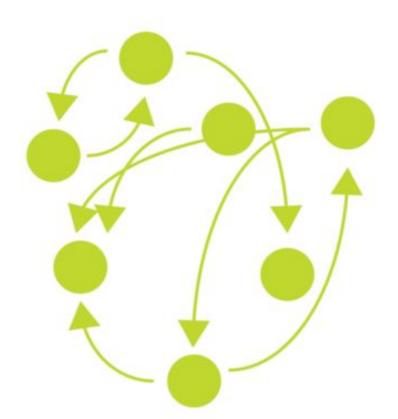


Jackie Gerstein: User-Generated Education

Traditional thinking

Systems thinking

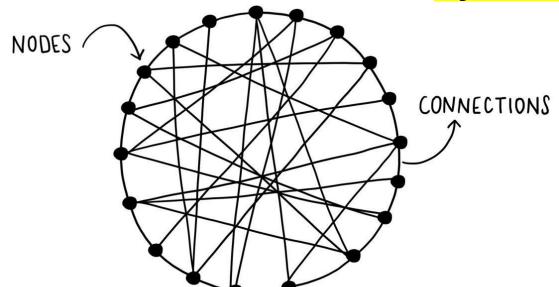




the model matters

environmental stewardship

Systems Thinking



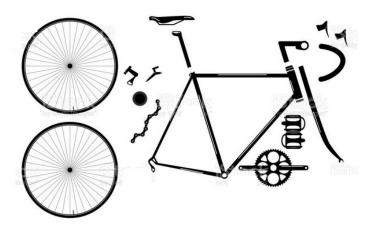
A system is a set of related components that work together in a particular environment to perform whatever functions are required to achieve the system's objective.

It is composed of:

- Elements
- Interconnections
- A collective purpose

D. Meadows

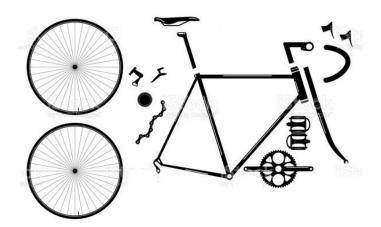
what's that?



now it is a bicycle

from a set to

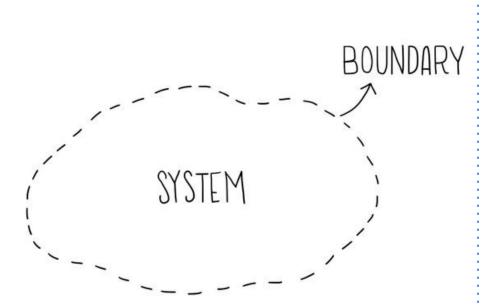
a system





Systems Thinking

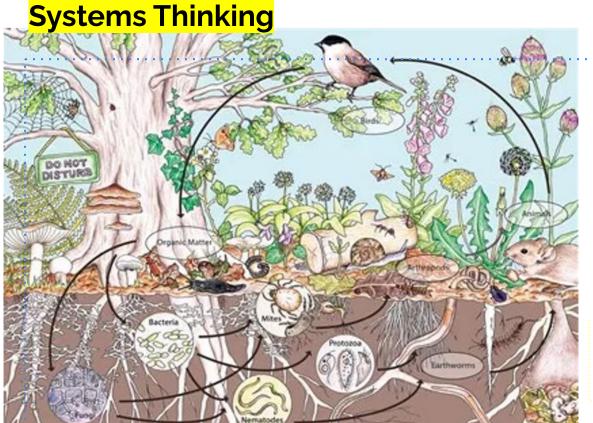
is everything a system?



There are no separate systems, the world is a continuum.

Where to draw a boundary around a system depends on the purpose of the discussion.

D. Meadows



system's properties

Resilience - diversity - complexity

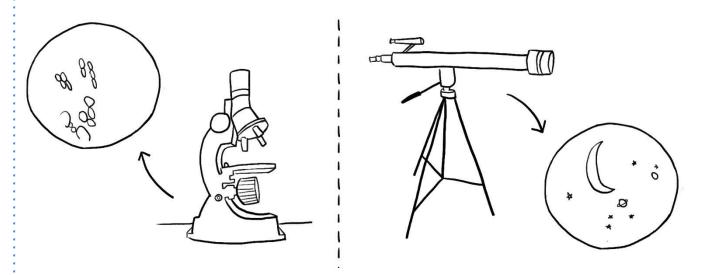
Self-organization - emergence

Hierarchy - order - nested systems

A system is more than the sum of its parts.

Systems Thinking

SYSTEMS THINKING SCALES



The process of transformation into a system emerges when interaction among elements changes the properties of the set.

D. Meadows

how this change of direction?



tools of a system thinker

Nested systems

See the reality as a network of relationships

what is **sustainability** about?

Sustainability is about meeting the needs of current generations without negatively affecting the ability of future generations to meet their own needs.



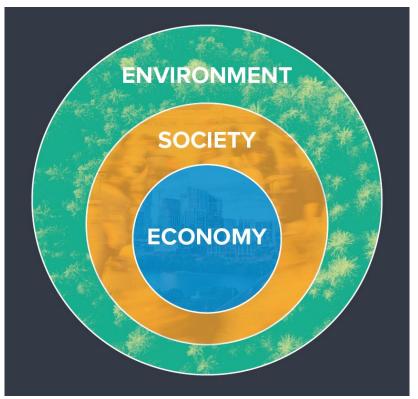
what is **sustainability** about?

Sustainability is about meeting the needs of current generations without negatively affecting the ability of future generations to meet their own needs.



what is sustainability about?





environmental stewardship

how can we care of the learning processes?

This methodology is based on 3 principles:



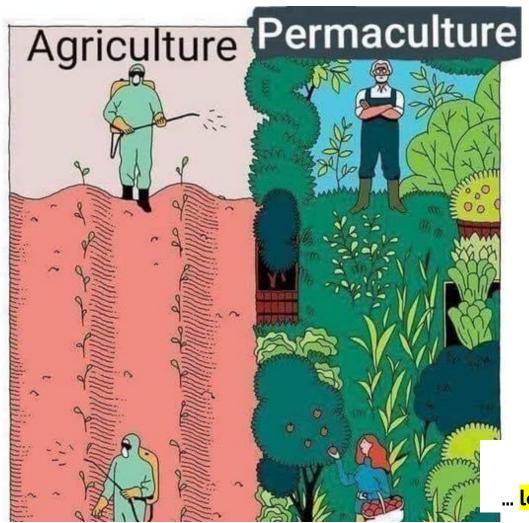
Head: educational resources (materials, humans, animals, places, etc.)



Heart: significant learning (learning is an unforgettable experience)



Hands: learn by doing (letting go so that learning is complete).



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Masanobu Fukuoka - One straw revolution (1975)

nendo dango (seed clay balls)

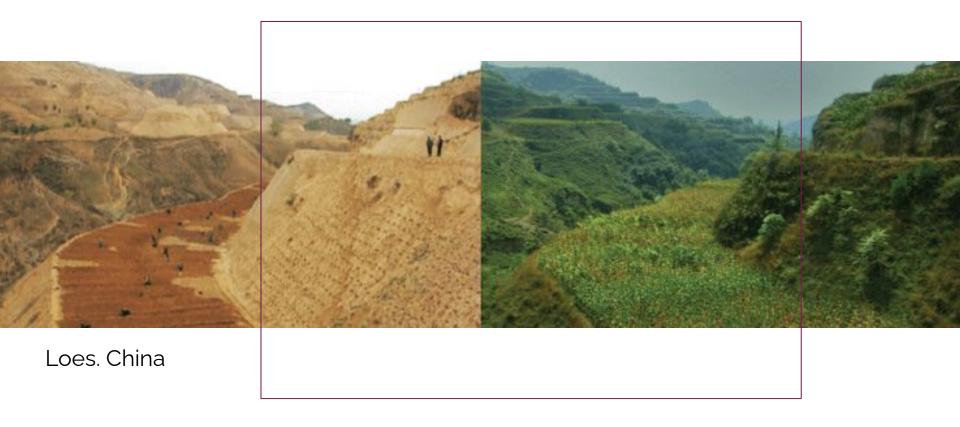
No dig

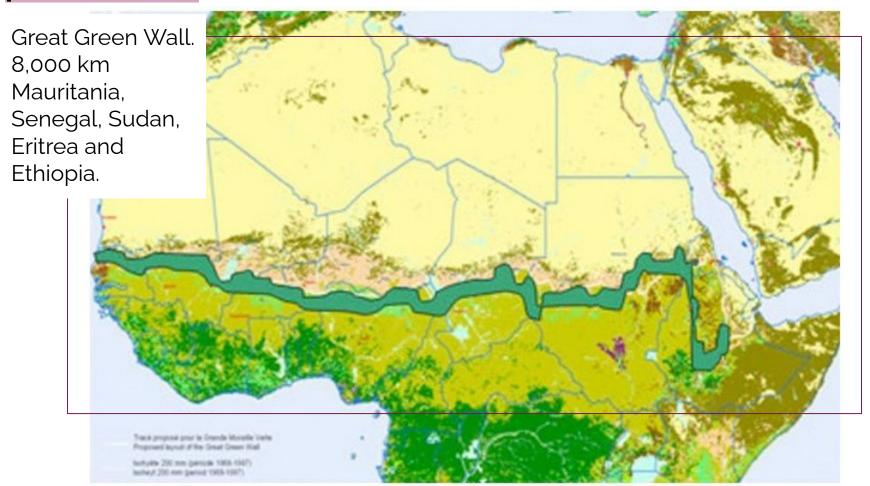
Do not use fertilizers or fertilizers

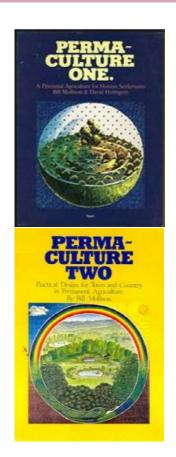
There are no weeds

No pruning









Humanity has not woven the net of life. We are just a thread of it. What we do to the net we do to ourselves. All things are linked to each other. **Everything is connected.**

chief Seattle





Founders: Bill Mollison & David Holmgren

PETALS

Land & Nature stewardship

Buildings

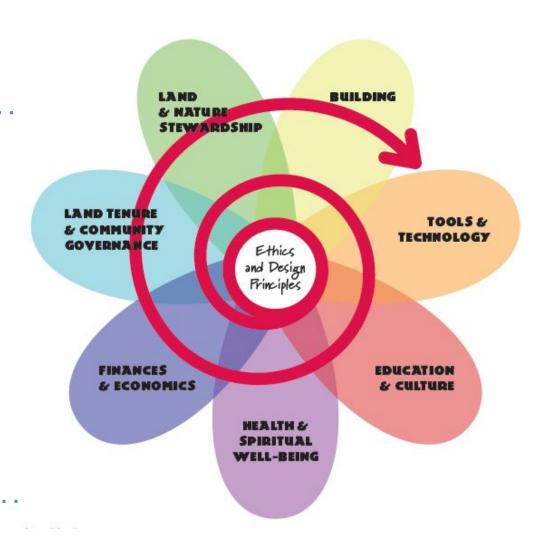
Tools & Technology

Education & Culture

Health & Spiritual wellbeing

Finance & Economics

Land tenure & Community governance



ETHICS ethics

care of the Earth

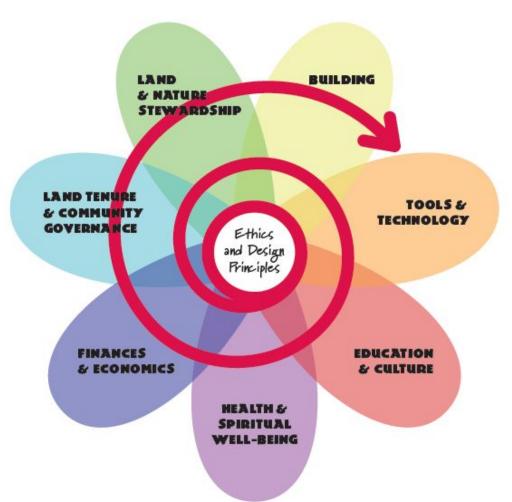
leave in peace & regenerate

care of People

satisfy humanity needs

Fair Shares

redistribution of surplus (E+P) self-regulation of consumption a population



systems thinking design



designing outside the box and into nature

Observe

resources & limits

Understand

natural systems cycles patterns

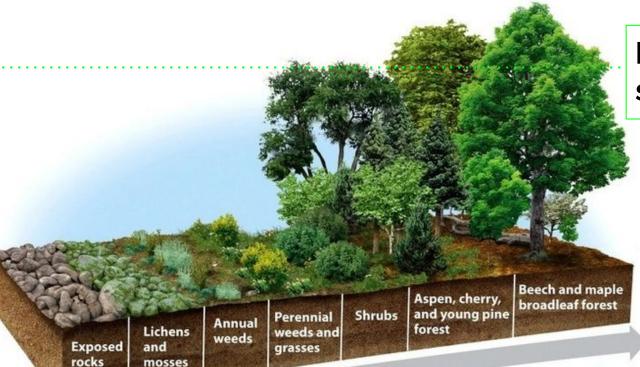
Collaborate

fertility & diversity

mosses

systems thinking design

hierarchy - order



Time

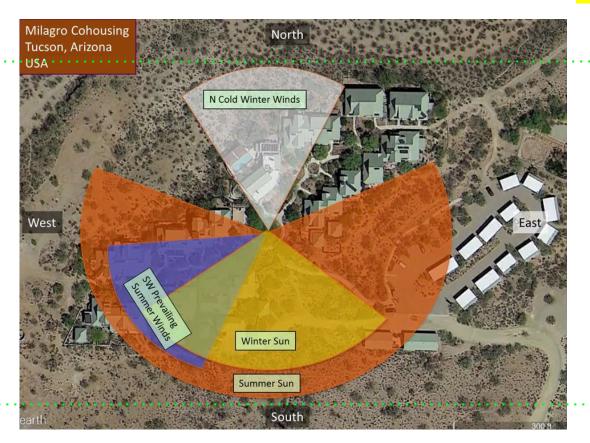
Natural succession

Multifunction

Vision

Think about the 7 next generations

systems thinking design whole system design



zones & sectors

Natural patterns

work with nature not against it

flows patterns

Scale

from macro to micro

systems thinking design whole system design



zones & sectors

Boundaries

5 zones energy efficiency

Nested systems

environment-societyeconomy

systems thinking design

positive feed-back

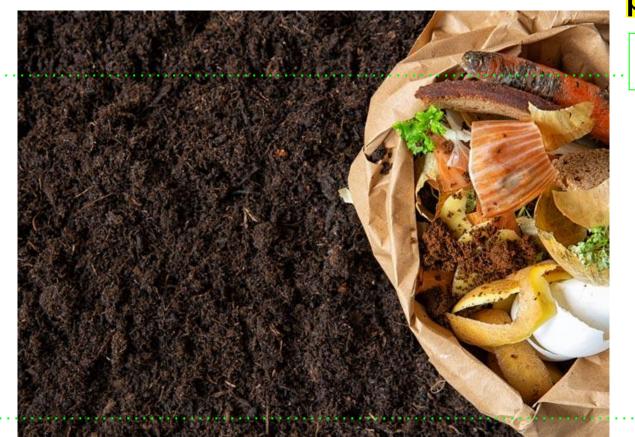
compost



everything serve to the collective goal

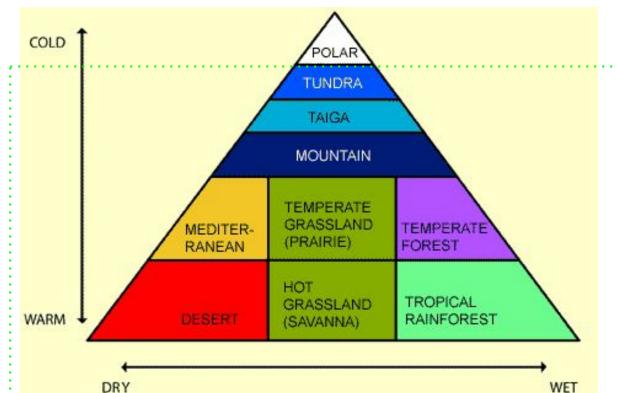
Circularity

regenerative pattern



systems thinking design

positive feed-back



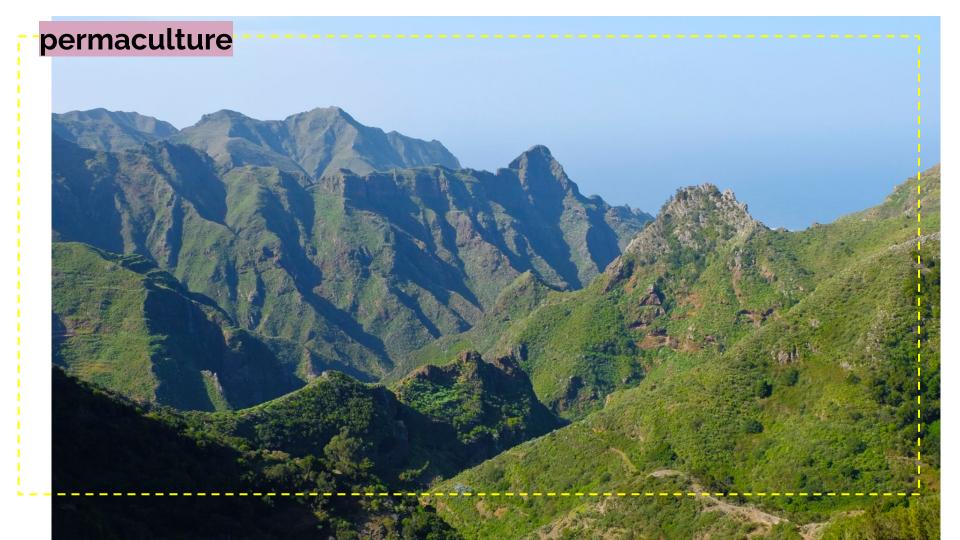
resilience

Self-organization

the system as more of the sum of its parts

Biodiversity

adapted to ecosystem









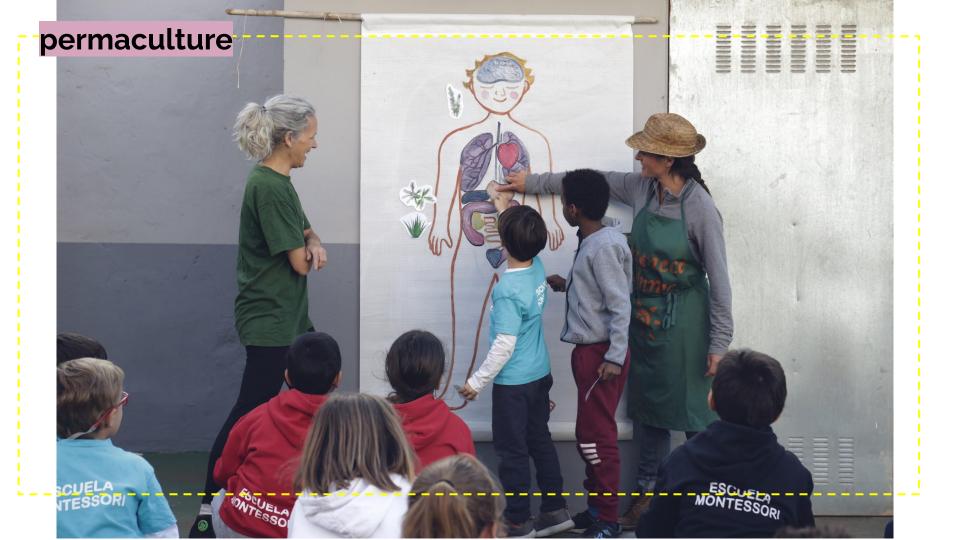






























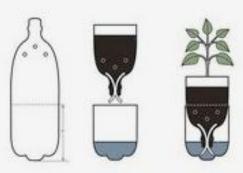


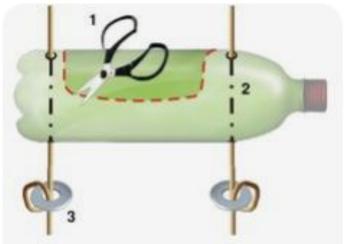














environmental stewardship

Bird feeders to supposite wild species













environmental stewardship

Novel pets Growing Mushrooms













Learn by doing about:

History: history of soap

Mathematics: measurements

Laboratory: precision, concentration, method, surprise

Chemistry: saponification reaction

Biology: properties of natural ingredients

Health: self-awareness and self-care and natural hygiene

Industry: caustic soda

Ecology: biodegradabylity

Economy: eco-friendly products

And more....





Recycle, reduce and reuse applied to schools

NATURAL SOAP WORKSHOP

Used oil: 420 gr.

Caustic soda: 56 gr.

Water: 135 gr.



inspiring humans



Ellen MacArthur

The circular economy is an attractive alternative that seeks to redefine what growth is, with an emphasis on benefits for all of society. This implies decoupling economic activity from the consumption of finite resources and eliminating waste from the system from design.

Ellen MacArthur Foundation



https://www.ellenmacarthurfoundation.org/

TED Talk The surprising thing I learned sailing solo around the world | Dame Ellen MacArthur:

https://youtu.be/oolxHVXgLbc?si=4zANQJVoXnmTlfBV

inspiring humans



Daniel Schmachtenberger

Motivated by the belief that advancing collective intelligence and capacity is foundational to the integrity of any civilization, and necessary to address the unique risks we currently face given the intersection of globalization and exponential technology.

The Consilience Project is developing a body of social theory and analysis that explains and seeks solutions to the unique challenges we face today.

Consilience (n):

"In science and history, consilience is the principle that evidence from independent, unrelated sources can 'converge' on strong conclusions.

That is, when multiple sources of evidence are in agreement, the conclusion can be very strong even when none of the individual sources of evidence is significantly so on its own."

https://consilienceproject.org/about/ https://civilizationemerging.com/media/

EMERGENCE Talk

https://www.youtube.com/watch?v=eh7qvXfGQho

inspiring humans



Ernst Gotsch

Ernst Gotsch is a Swiss farmer and researcher who works mainly in Brazil. It has originated a **system** of climate and biodiversity friendly sustainable agriculture techniques known as syntropic agriculture or dynamic agroforestry.

Syntropic agriculture



https://www.youtube.com/watch?v=gSPNRu4ZPvE

ECOLOGICAL FOOTPRINT

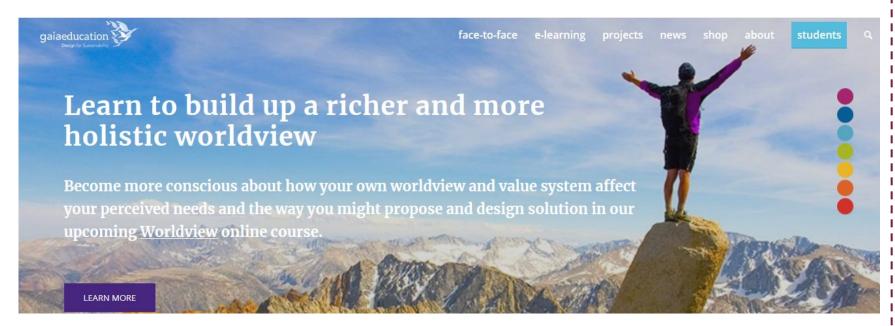
www.footprintcalculator.org

do you know your ecological footprint?





https://circularclassroom.com/



https://www.gaiaeducation.org/





An independent think tank for environmental, social and economic issues.



https://www.schumacherinstitute.org.uk/



ABOUT PHILOSOPHY PROGRAMS COMMUNITIES RESOURCES DONATE LOGI



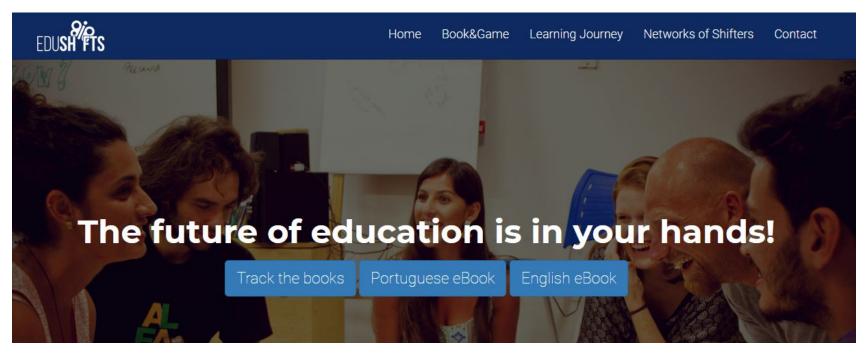
https://regenerat.es/



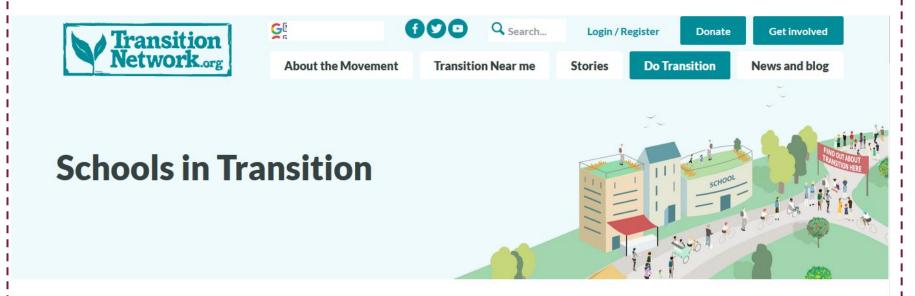
Who we are How we work Education v Projects Resources Books v Blog



https://regenesisgroup.com/



https://www.edushifts.world/



https://transitionnetwork.org/do-transition/transition-in-action/schools-in-transition/



Resources Portal

Home

Steps

Case Studies

Resources Portal

Support

In the Curriculum

About Us

Steps

- > In the Classroom
- > In the School
- > In the Community
- > Connecting to Networks

'Every school is located in an ecosystem; a ready-made, complex world ripe for discovery, exploration,

Steps to sustainability education

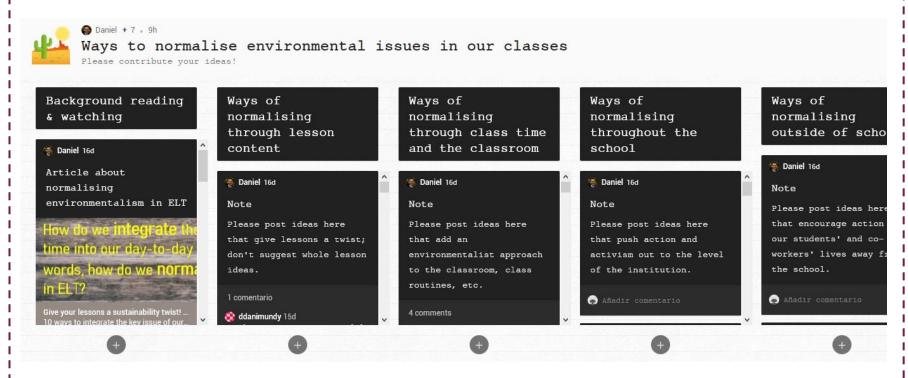
There are many steps to sustainability education. Here are some resources to help you, whichever step you are at.



In the classroom

In the classroom, on a day-to-day basis, sustainability enriches and strengthens students' learning. This step is designed for teachers who are seeking to bring

https://sustainabilityinschools.edu.au/steps





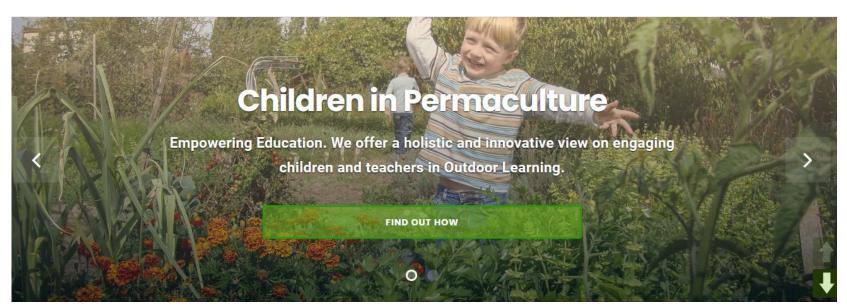
About Us V Our Materials

Our Materials > Events and Training >

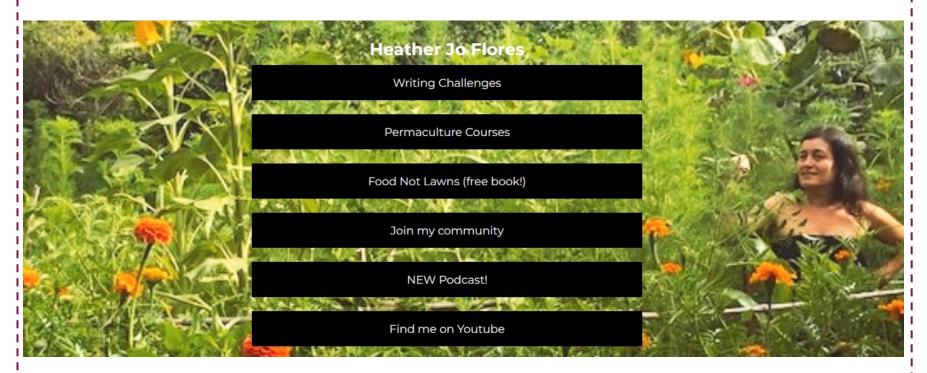
Blog Contac

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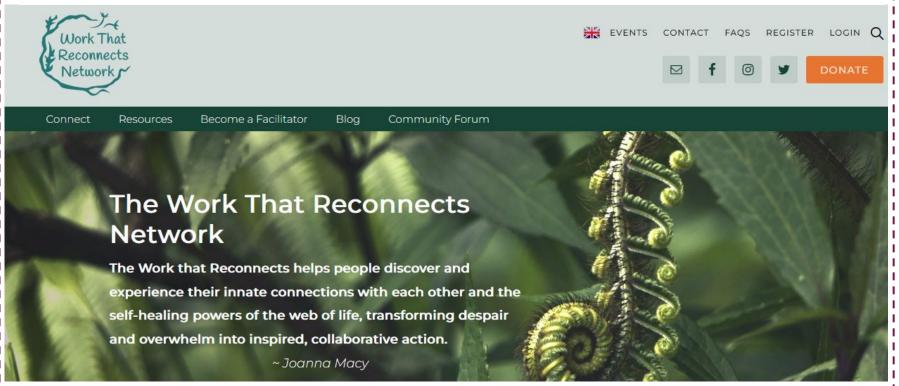




https://www.youtube.com/watch?v=0gOlaGBNW1k&t=6s



https://www.heatherjoflores.com/



https://workthatreconnects.org/

SYSTEMS THINKING & REGENERATION MOVEMENT

The work that reconnect https://workthatreconnects.org/ Regenesis movement https://workthatreconnects.org/ Climate and systems thinking https://www.lindaboothsweeney.net/

CIRCULAR ECONOMY

Rethinking progress https://www.youtube.com/watch?v=zCRKvDyyHml&t=9s Circular design guide https://www.circulardesignguide.com/

INSPIRING SCHOOLS, TEACHERS, DESIGNERS AND TEACHINGS

Findhorn foundation https://www.findhorn.org/

Brockwood Park School https://brockwood.org.uk/

The Unschool of disruptive design https://www.unschools.co/

Leyla Acaroglu https://www.leylaacaroglu.com/

Youth initiative program https://yip.se/

School circles https://schoolcirclesfilm.com/

Dra. Alice Mendus https://independent.academia.edu/DrAlysMendus //

https://alysmendus.wordpress.com/about/

