Learning in a Changing Climate: an intercultural exchange between Peru and Scotland

Welcome!











Welcome!

Bienvenido!



Aims of workshop

- Hear about <u>approaches</u> to developing values, skills and knowledges for climate adaptation and sustainability
- Explore the curricular interventions needed to equip learners to adapt to our ever changing world
- Share perspectives on Learning for Sustainability challenges and opportunities

Objetivos del seminario

- Conocer enfoques para desarrollar valores, capacidades y conocimientos para la adaptación al cambio climático y la sostenibilidad.
- Explorar las intervenciones curriculares necesarias para equipar a los alumnos para adaptarse a nuestro mundo en constante cambio.
- Compartir perspectivas sobre los retos y oportunidades del aprendizaje para la sostenibilidad

Agenda

Global perspective / Perspectivo del mundo

Peru perspective

Scottish perspective

Group discussion / Discusión grupa

Plenary discussion / Discusión plenaria

Conclusions

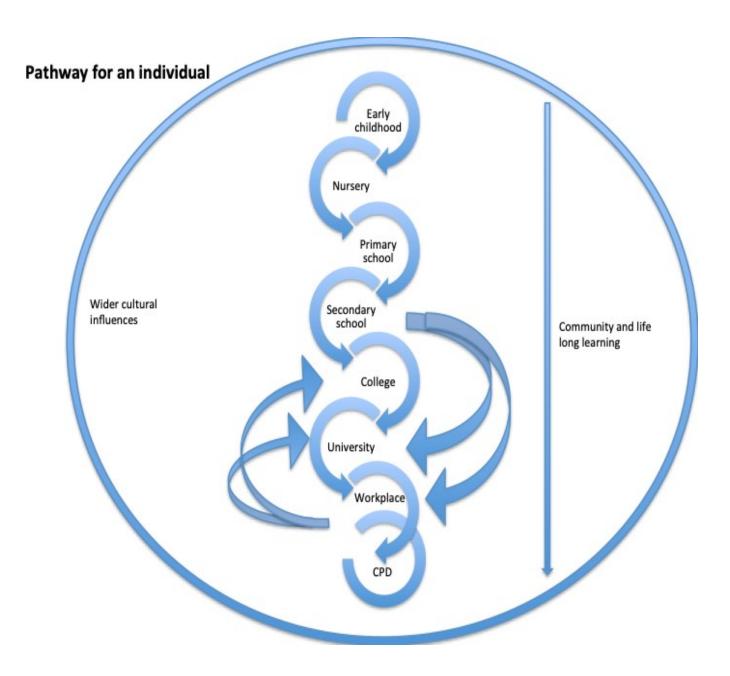
Lunch



Learning for Sustainability (LfS) Scotland is a UN Universityrecognised Regional Centre of Expertise (RCE) in Education for Sustainable Development

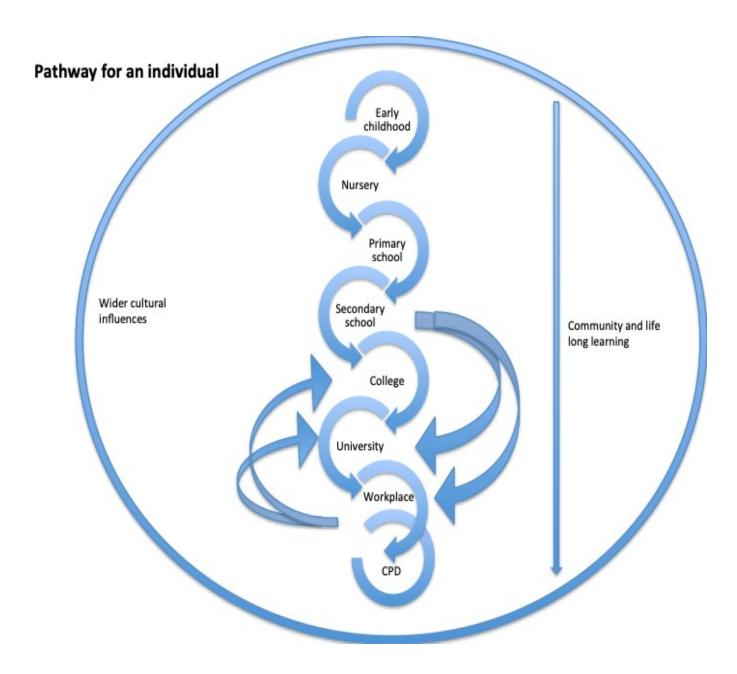
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Somos una red abierta en la que los miembros y socios se reúnen para llevar a cabo proyectos de colaboración, investigación y promoción que promuevan e integren la práctica y la política del Aprendizaje para la Sostenibilidad en Escocia.



- Across sectors (school, community, university etc)
- Across topics (agriculture, food, biodiversity etc)

- En todos los sectores (escuela, comunidad, universidad, etc.)
- Todos los temas (agricultura, alimentación, biodiversidad, etc.)



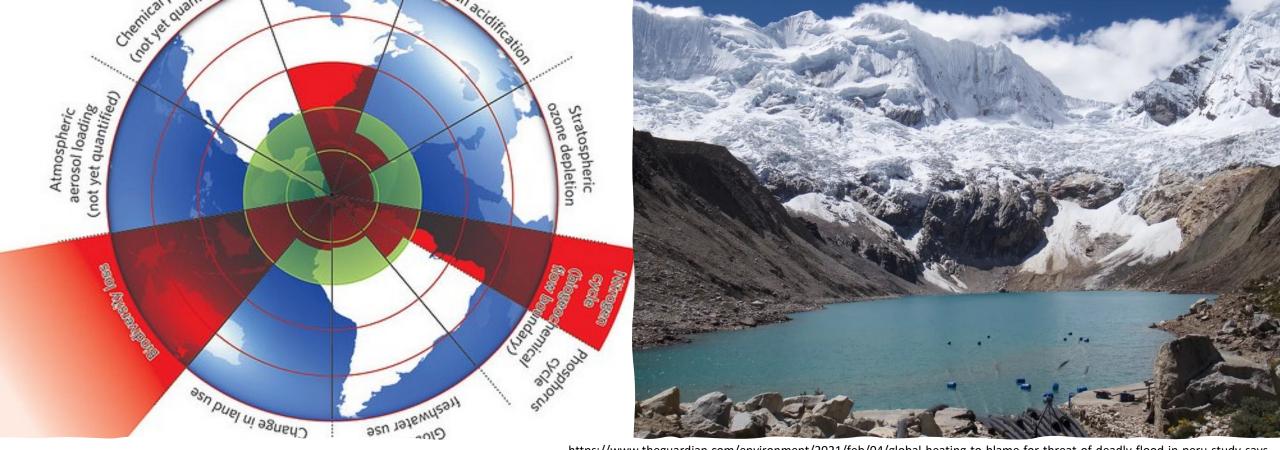
Across forms of learning

- Formal education e.g. schools, university
- Non-formal education e.g. community, Continued Professional Development
- Informal education e.g. cultural norms, media

Distintas formas de aprendizaje

- Educación formal, p. ej., escuelas, universidad
- Educación no formal: comunidad, desarrollo profesional continuo, etc.
- Educación informal: normas culturales, medios de comunicación, etc.





https://www.theguardian.com/environment/2021/feb/04/global-heating-to-blame-for-threat-of-deadly-flood-in-peru-study-says

Why is sustainability necessary? - Crisis

Necesitamos la sostenibilidad debido a retos como las crisis climática y de la naturaleza

Why is sustainability necessary? - Opportunity Pero Tambien hay oportunidades de la sostenabilidad



Defining ESD

ESD empowers learners to take informed decisions and responsible actions for environmental integrity, economic viability and a just society, for present and future generations, while respecting cultural diversity. It is about lifelong learning, and is an integral part of quality education. ESD is holistic and transformational education which addresses learning content and outcomes, pedagogy and the learning environment. It achieves its purpose by transforming society. UNESCO, 2019

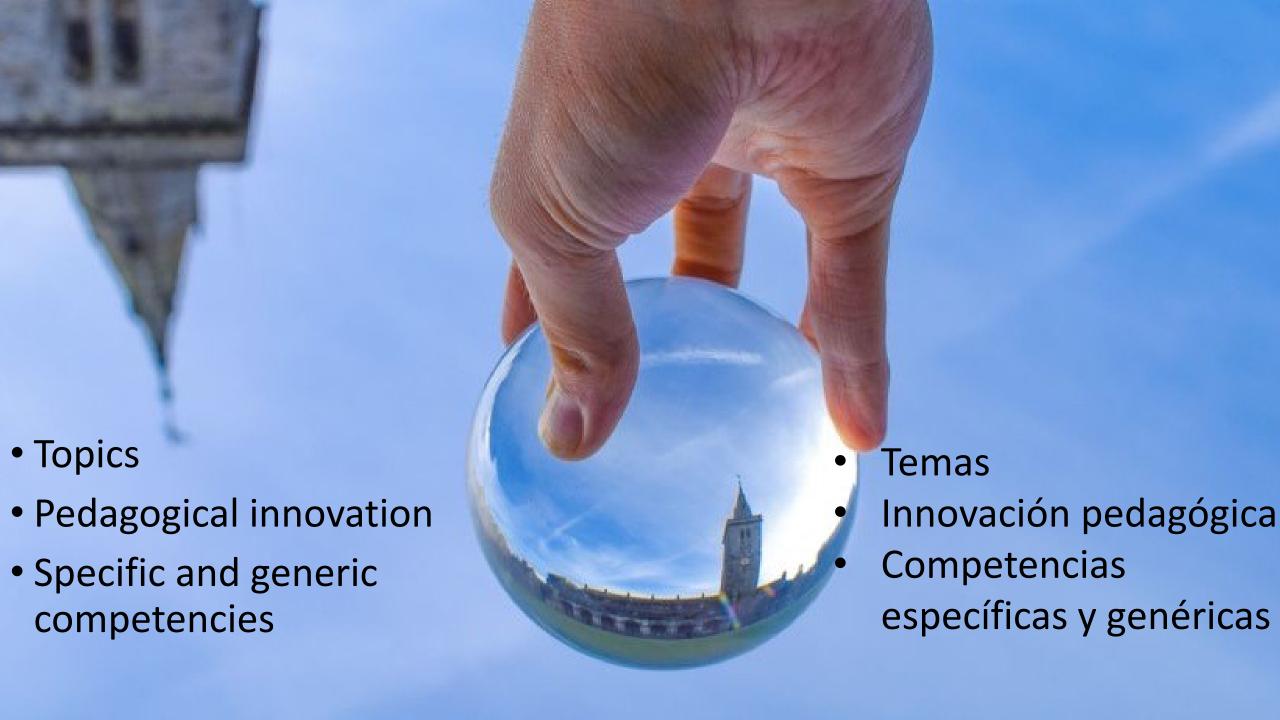
- Not merely about but for
- Not merely environmental issues!
- ESD is an educational change agenda grounded in transformative learning and critical pedagogy
- ESD develops competencies skills, attributes and values for a better world
- Related to sustainability in the curriculum, learning for sustainability, sustainability education......

Definición de la educación para el desarrollo sostenible

La EDS capacita a los educandos para tomar decisiones con conocimiento de causa y adoptar medidas responsables en pro de la integridad del medio ambiente, la viabilidad económica y una sociedad justa, para las generaciones presentes y futuras, respetando al mismo tiempo la diversidad cultural. Se trata del aprendizaje a lo largo de toda la vida y forma parte integrante de una educación de calidad. La EDS es una educación holística y transformadora que aborda el contenido y los resultados del aprendizaje, la pedagogía y el entorno de aprendizaje. Logra su propósito transformando la sociedad. UNESCO, 2019

- No sólo sobre, sino para
- No se trata solo de cuestiones medioambientales.
- La EDS es un programa de cambio educativo basado en el aprendizaje transformador y la pedagogía crítica
- La EDS desarrolla competencias -habilidades, atributos y valorespara un mundo mejor





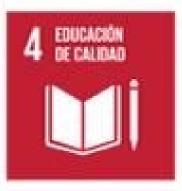


OBJETIVE'S DE DESARROLLO SOSTENIBLE











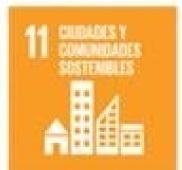








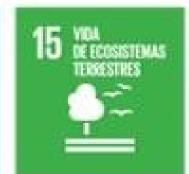


















Not just one topic but interconnected topics



Los temas están interconectados y tenemos que pensar de forma holística

Not just curriculum but pedagogy No sólo currículo, sino pedagogía

- Collaborative learning
- Enquiry based learning
- Playful learning
- Storytelling
- Problem based learning
- Outdoor learning



Not just topics and pedagogies but specific and generic sustainability competencies

No sólo temas y pedagogías, sino competencias específicas y genéricas de sostenibilidad

Systems thinking	Pensamiento sistémico		
Future thinking	Pensamiento de futuro		
Critical thinking	Pensamiento crítico		
Strategic	Estratégico		
Collaboration	Colaboración		
Integrated problem- solving	Resolución integrada de problemas		
Self awareness	Autoconciencia		
Normative	Normativa		

Not just topics but competencies

	<u></u>		
Specific		A student who displays this competency can	
and knowledge of SDGs	Systems thinking competency	recognise and understand relationships, analyse complex systems, consider how systems are embedded within different domains and scales, deal with uncertainty	Ways of thinking
	Anticipatory competency (Future thinking)	understand and evaluate multiple outcomes, create their own visions for the future, apply the precautionary principle, assess the consequences of actions, deal with risks and changes	
	Critical thinking competency	question norms, practices and opinions, reflect on one's own values, perceptions and actions, sustainable development discourse	
	Strategic competency	develop and implement innovative plans and actions that further sustainable development at the local level and further afield	Ways of practising
	Collaboration competency	learn from others, understand and respect the needs, perspectives and actions of others, deal with group conflicts, collaborative & participatory problem solving	
	Integrated problem- solving competency	apply different problem-solving frameworks to complex sustainable development problems, develop viable, inclusive and equitable solutions, utilise appropriate competencies to solve problems	
	Self awareness	reflect on own values and actions; monitor feelings and needs	Ways of being
	Normative	understand and reflect on norms and values underpinning actions, appreciate other worldviews, negotiate goals and trade offs	

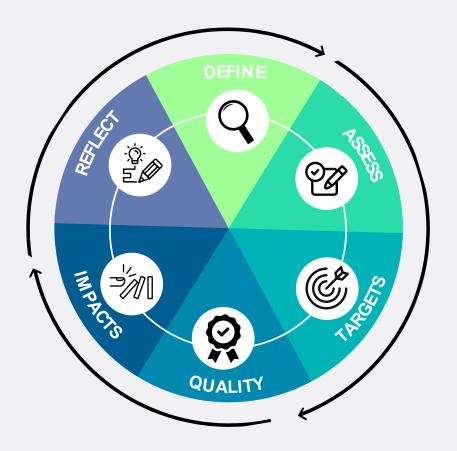


Climate adaptation / Adaptación al clima

- Requires personal resilience and collaboration; innovative critical thinking and strategy; ability to imagine future scenarios and learn from past etc
- Requiere resiliencia personal y colaboración; pensamiento crítico y estrategia innovadores; capacidad para imaginar escenarios futuros y aprender del pasado, etc.



A FRAMEWORK FOR MEASURING AND EVALUATING ESD





1. Define ESD

What is ESD for us?

Short explanation



2. Assess ESD

How much ESD do we have?

Short explanation



3. Set targets

What is our plan for ESD?

Short explanation



4. Consider Quality

How do we assess and deepen the quality of our ESD?

Short explanation



5. Envision imapcts

What are the outcomes and impacts of our ESD?

Short explanation



6. Reflect

How does our evaluation help us reflect and plan new activities?

Short explanation

















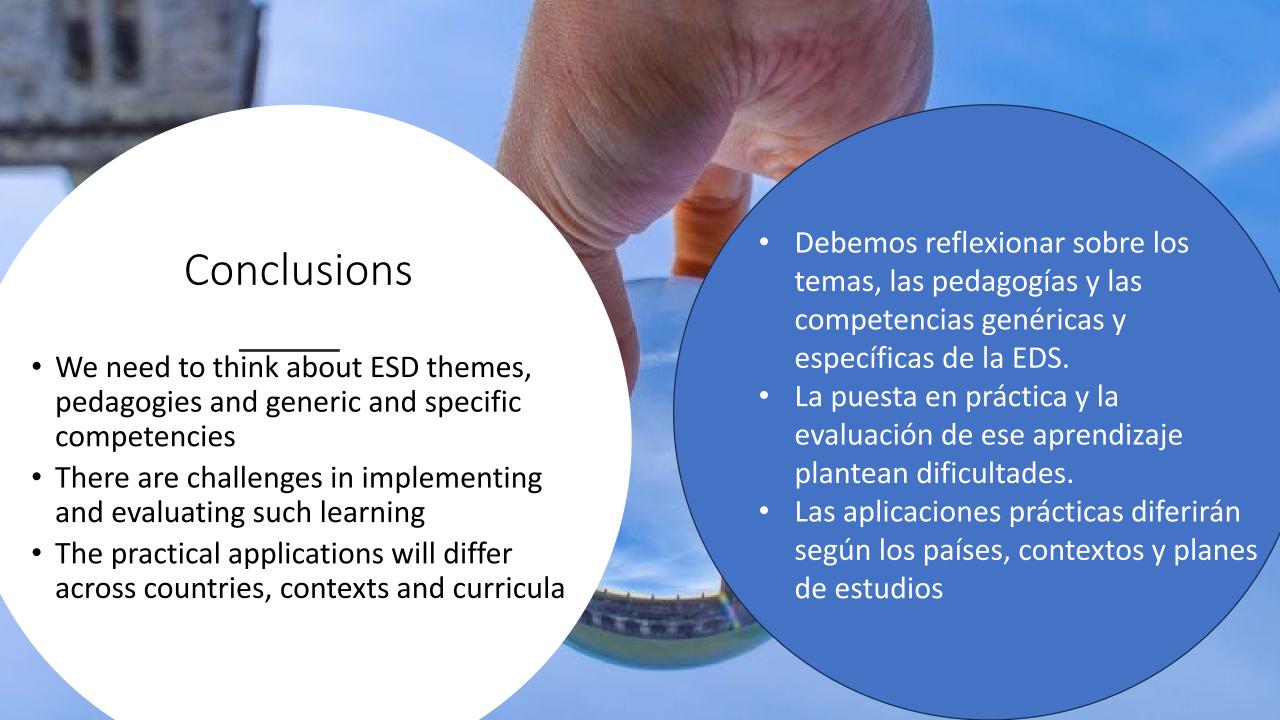


Evaluating sustainability competencies / Evaluación de las competencias de sostenibilidad

- Short term: Reflective questioning by learners and educators?
- Medium term: Assessing retrospective reflections?
- Long term: Assessing impacts made by learners later in life?

- A corto plazo: ¿Cuestionamiento reflexivo por parte de alumnos y educadores?
- A medio plazo: ¿Evaluar las reflexiones retrospectivas?
- A largo plazo: ¿Evaluar el impacto de los alumnos en el futuro?





Perspectives from Peru









Perspectives from Scotland













Perspectives from Scotland

Kirsten Leask, Learning for Sustainability Scotland Betsy King, Learning for Sustainability Scotland



Who are we?

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Overview

- 1. Scotland's vision
- 2. Learning for a sustainable future
- 3. Building a whole-school and community approach
- 4. Scotland's curriculum
- 5. Engaging with Learning for Sustainability
- 6. What next?



1. Scotland's vision

The SDGs are a core element of the
Scottish Government's National
Outcomes and Performance Framework

(2018-23) across all policy areas.



Taking action on the Nature and Climate Emergency



Annual woodland creation to 18,000 hectares a year by 2024 and restore 250,000 hectares of degraded peatlands by 2030

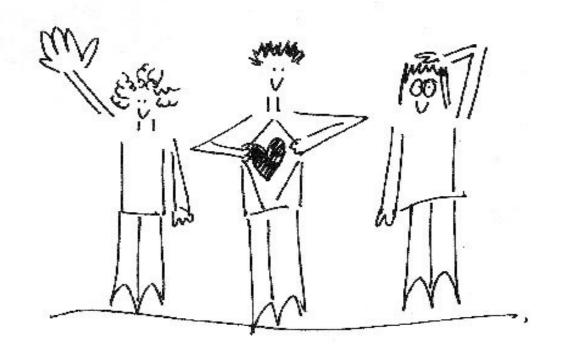


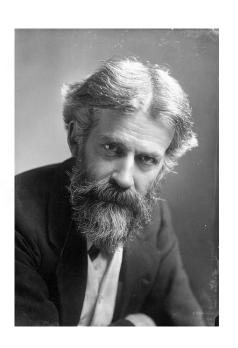
Net Zero by 2045 Reduce emissions by 75% by 2030

Learning for a sustainable future



Education for 'heart, hand and head'





('for in that order they develop' - Geddes, 1919)

Education for 'heart, hand and head'

'Learning for Sustainability' is a whole-setting commitment that helps the setting and its wider community develop the knowledge, skills, attitudes, values and practices needed to take decisions which are compatible with a sustainable future in a just and equitable world.





2. Learning for a sustainable future

In Scotland's schools Learning for Sustainability is:

- 1. An <u>entitlement</u> for all learners, and a whole-setting and community approach.
- 2. Woven throughout the Scottish <u>curriculum</u>.
- 3. Central to the national Professional Standards for teachers.
- 4. Embedded in whole-school self-evaluation.



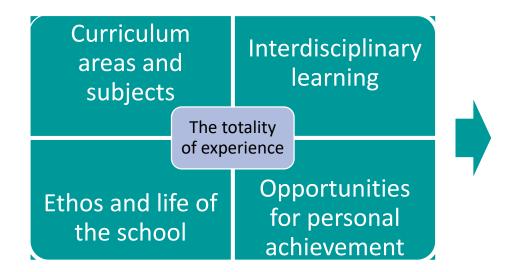
3. Building a whole-setting and community approach

Curriculum - Learning, teaching, assessment, pedagogy Culture - Learner voice, UNCRC, ethos, relationships Community - Place, partnerships, families, local action Campus - Buildings, grounds, transport, energy & water use

4. Scotland's curriculum



- Coherent learning from 3-18 years
- Delivered through Four Contexts





Curriculum for Excellence: Four Capacities

kinds of learning in new

situations.

responsible citizens successful learners confident individuals effective contributors attributes attributes attributes attributes enthusiasm and self-respect respect for others an enterprising attitude motivation for learning a sense of physical, commitment to resilience mental and emotional determination to reach participate responsibly self-reliance high standards of well-being in political, economic, capabilities secure values and beliefs social and cultural life achievement communicate in openness to new ambition capabilities thinking and ideas different ways and in capabilities develop knowledge and different settings capabilities relate to others and understanding of the work in partnership and use literacy, manage themselves world and Scotland's in teams pursue a healthy and communication and place in it take the initiative and numeracy skills active lifestyle understand different lead be self-aware beliefs and cultures use technology for apply critical thinking in develop and make informed choices learning new contexts think creatively and communicate their own and decisions create and develop independently beliefs and view of the evaluate environmental. solve problems · learn independently and world scientific and as part of a group live as independently as technological issues they can make reasoned develop informed, ethical assess risk and make evaluations views of complex issues. link and apply different informed decisions

achieve success in

different areas of activity.

Curriculum entitlements

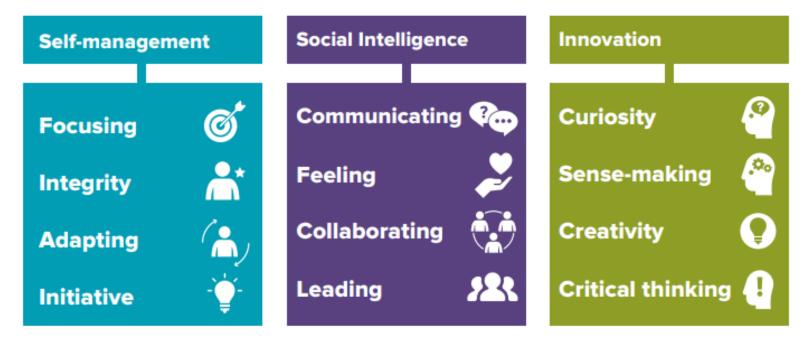
Children and young people's rights and entitlements are central to Scotland's curriculum and every child and young person is entitled to experience:

- a curriculum which is coherent from 3 to 18
- a broad general education, including well planned experiences and outcomes across all the curriculum areas from early years through to S3. This includes understanding the world, Scotland's place in it and the environment, referred to as Learning for Sustainability
- a senior phase after S3, which provides opportunities to attain and achieve, including to study for qualifications, awards and other planned activities to develop the four capacities

https://scotlandscurriculum.scot/

Skills Development Scotland Metaskills 2021

Skills 4.0 A skills Model to Drive Scotland Forward.



- Self-Management: Manage the now
- •
- Social Intelligence: Connect with the world
- Innovation: Create our own change



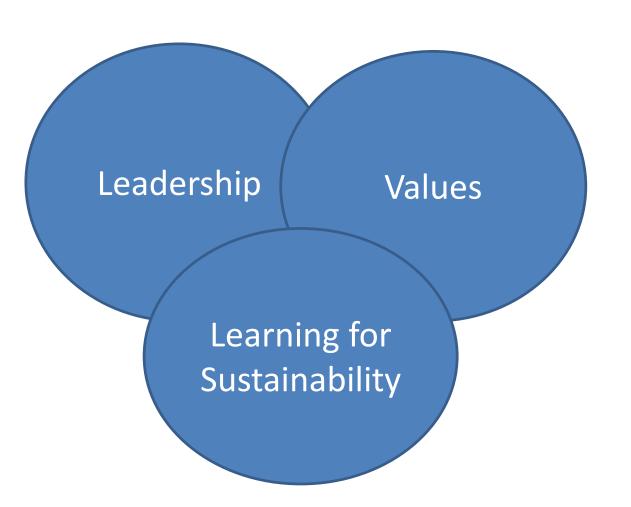
Education for Sustainable Development SuperVision 4.0

Competences for sustainable development	
Dimensions	Key abilities
Cognitive	Critical thinking; Systems thinking; Creative thinking
Social and emotional (personal)	Communication; Collaboration; Solidarity
	Reflexivity; Value-orientation; Responsibility
Behavioural	Futures thinking; Innovative decision; Transformative action

Structure of Observed Learning Outcomes (SOLO) Taxonomy used to describe progressive levels of student achievements.



5. Engaging with Learning for Sustainability: central to the national professional Standards for teachers



'Making a professional commitment to learning and learners that is compatible with the aspiration of achieving a sustainable and equitable world embodies what it is to be a teacher in Scotland'.

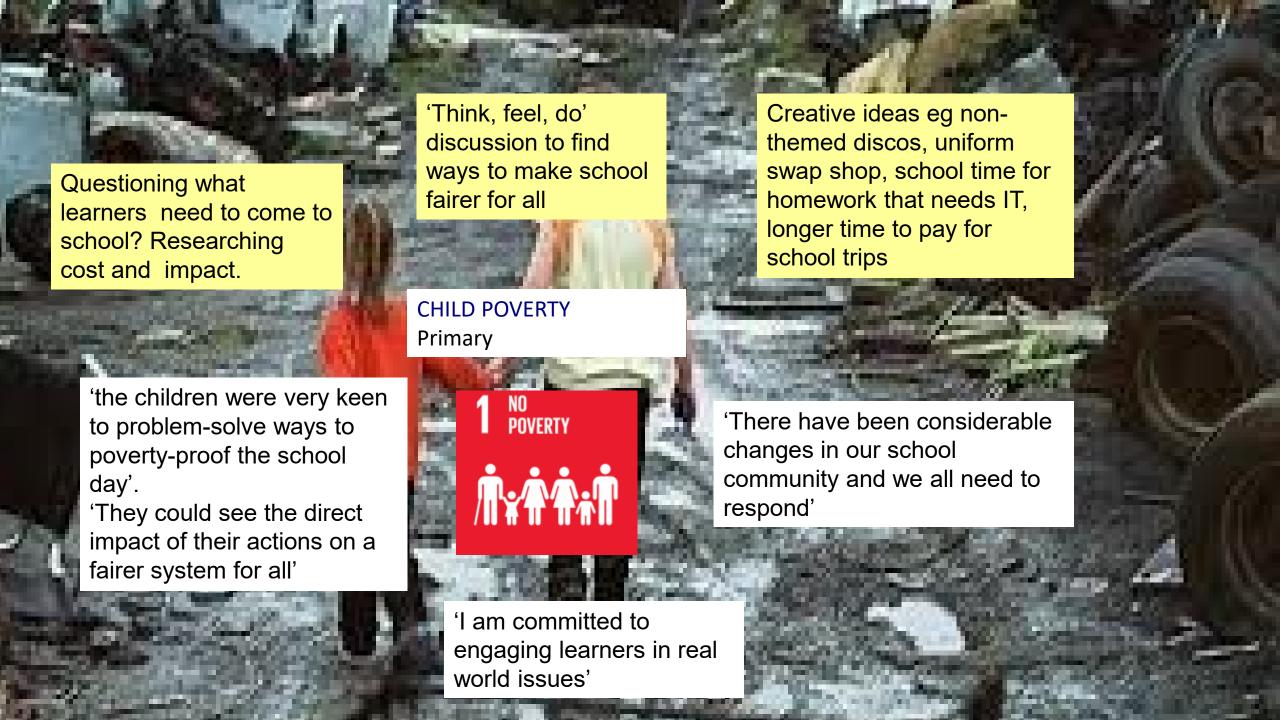
The General Teaching Council for Scotland 2021

'Becoming- Being- Growing' as a teacher

Teachers as enquiring professionals









6. What's next?

Opportunities

- Children and young people are asking for action
- Time of change in Scottish education
- Building a movement for change
- LfS as a 'golden thread' across Scotland's policies

• ...

Challenges

- LfS as an integrated holistic concept in secondary schools
- Examining and assessing learner 'Capacities'
- ...





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Community dialogue









Plenary











Conclusions and next steps











Lunch and networking









