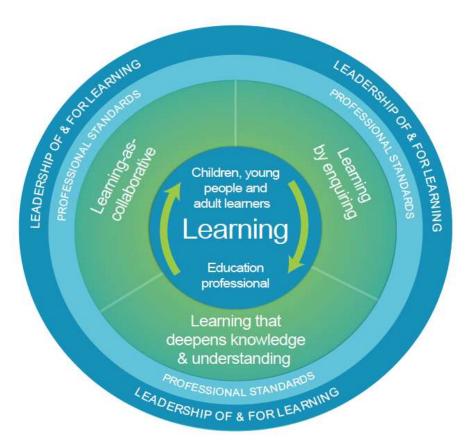


National model of professional learning



Professional learning must focus on the education professional as a learner and how this is related to and impacts upon the learning of children, young people and adult learners.

Professional learning should be:

- Challenging, and develop thinking, knowledge, skills and understanding
- Underpinned by developing skills of enquiry and criticality
- Interactive, reflective and involve learning with and from others.

Professional learning is informed and supported by professional standards and education policy.

Leadership of and for learning is essential to ensure it is well supported, promoted and sustained.

www.scelframework.com





CULTURALLY RESPONSIVE PEDAGOGY- DOES IT MATTER?

PROF ROWENA ARSHAD
UNIVERSITY OF EDINBURGH

Given that....

BME pupils do better than Scottish White pupils

Scotland is a welcoming country – we do not have a hostile political or policy narrative

DIVERSE TEACHERS FOR DIVERSE LEARNERS

- Egalite, Kisida and Winters (2015) covering 2.9 million public school pupils in Florida over 7 years. Concluded – where there was ethnic or colour congruence, BME pupil test scores went up marginally. Most pronounced in primary schools and pupils labelled as 'low performing'
- Gershenson, Hart, Lindsay and Papageorge (2017) Followed just over 106,000 students from Grade 3-10 in N. Carolina. Impact of long-run exposure to teacher diversity on black pupil esteem and aspirations. Went on to look at impact of teacher bias.

Culturally Responsive Teaching (1)

- Gloria Ladson-Billings (1994)
- Culturally responsive teaching is a pedagogy that recognises the importance of including students' cultural references in all aspects of teaching.
- 19th and 20th June 2019



Professional responsibility

- If the experiences of BME pupils can be further improved – we should make it happen
- All pupils needs to develop cultural competence as they move into a diverse world and the world of work. Without these soft skills, they will be at a disadvantage
- Producing agentic pupils developing a consciousness to question and to improve as well as challenge the society in which they live in

Tylo

(male, 16-18, Scottish Algerian, Muslim, Glasgow)

- 'I don't mention it too much because people can become very kinda judgmental about it... if they found out that you're Muslim. I kinda just act as if I'm normal.'

What is said about the benefits of Culturally Responsive Teaching

- Culturally relevant teaching promotes academic achievement and engagement e.g. use of real life examples in the curriculum has sparked interest in the subject area
- Culturally relevant teaching promotes critical consciousness discussions about bias in a science class (skin colour and pigmentation) is broadened to larger society; pollution in a nearby river and people activism/active citizens
- Culturally relevant teaching can promote a positive attitude towards others as well as a positive self-identity – work of Thomas, Davidson and McAdoo (2008) – African American girls in a culturally rich school gaining in selfesteem and commitment to advancements as compared with a control group that did not have those experiences

Three aspects

- Culturally responsive attributes Teacher Values, Attitudes and Positionality
- Culturally relevant content
- Culturally responsive teaching classroom ethos, instructional practice
- Needs all three having Culturally responsive teaching alone is not enough
- Needs critically aware teachers who are prepared to understand context and lived experiences

The cultural competence of the adults is intimately connected to the achievement of the pupils they teach.

'Culturally responsive teaching make liquid again the spaces that tradition, parochialism, colonisation have solidified... culturally responsive teaching loosens straightjackets and this is very important in disjointed times.'

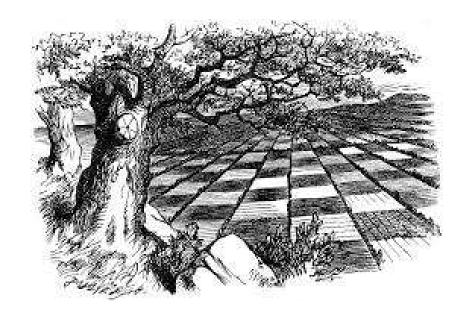
PluriLiteracies for deeper learning



Innovative and Inclusive Pedagogies

Do Coyle

Why it matters...



"If I had a world of my own, everything would be nonsense. Nothing would be what it is, because everything would be what it isn't. And contrary wise, what is, it wouldn't be. And what it wouldn't be, it would. You see?"

What research tells us about pluriliteracies approaches (using more than one language to develop literacies across the curriculum) and why it is so important for deeper learning, problemsolving and creativity...

OUR WORLD

OUR CLASSROOMS



LEARNING PARTNERSHIPS



to nurture pluriliterate citizens

POLITICAL TURBULENCE

HOW SOCIAL MEDIA SHAPE COLLECTIVE ACTION







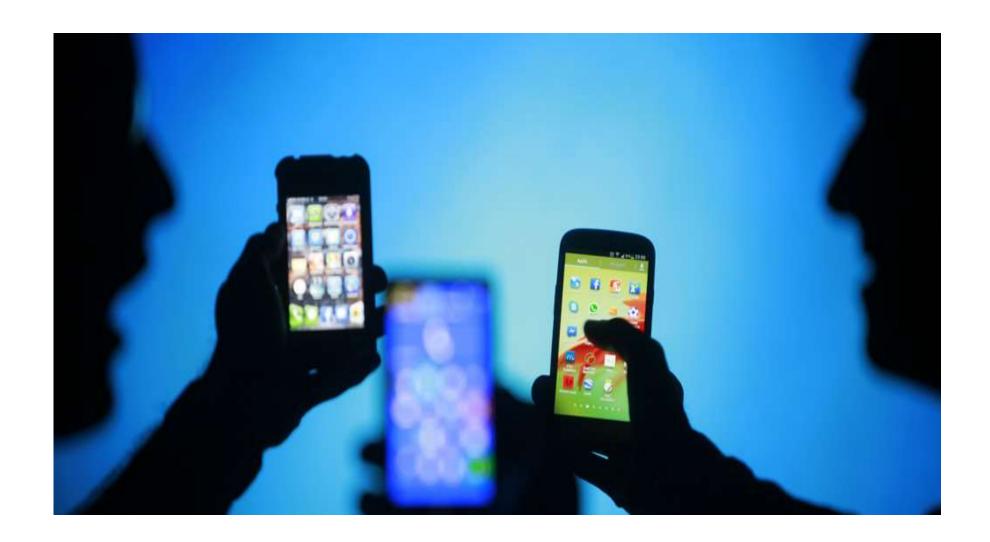




Scottish Schools



Anywhere Schools



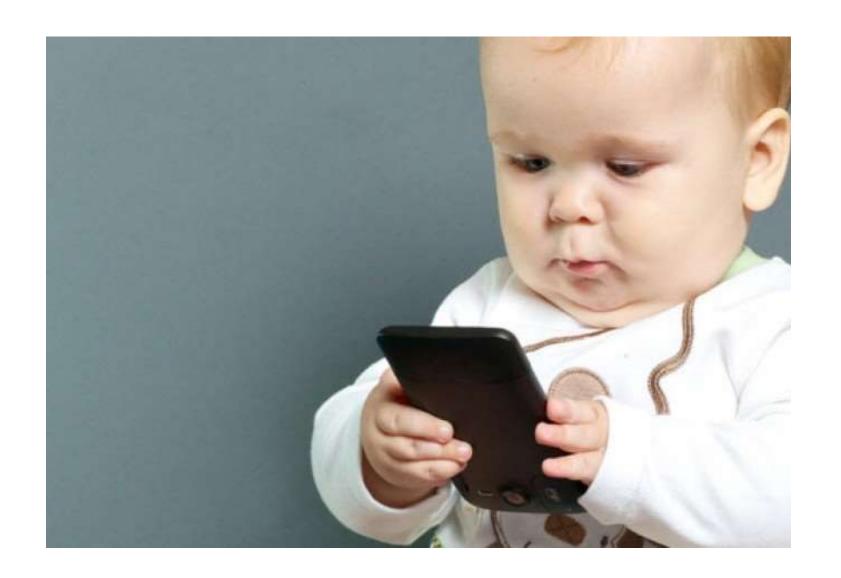
Growth Mind Sets....













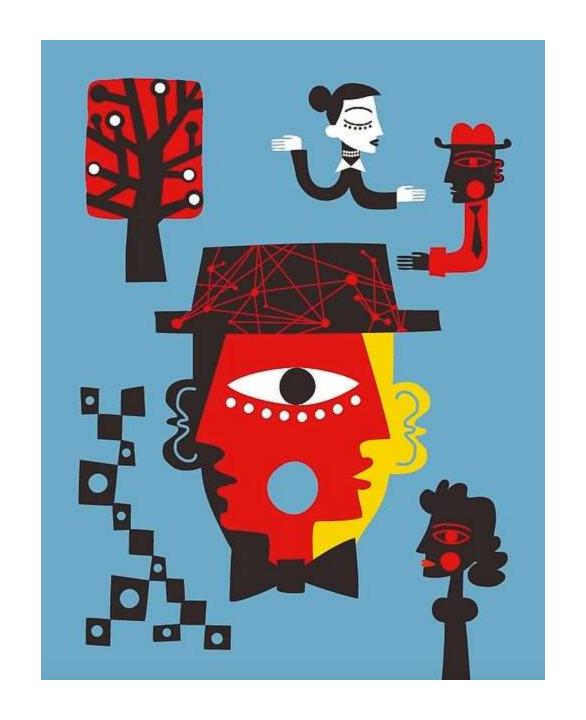
258 million people are living outside their birth country

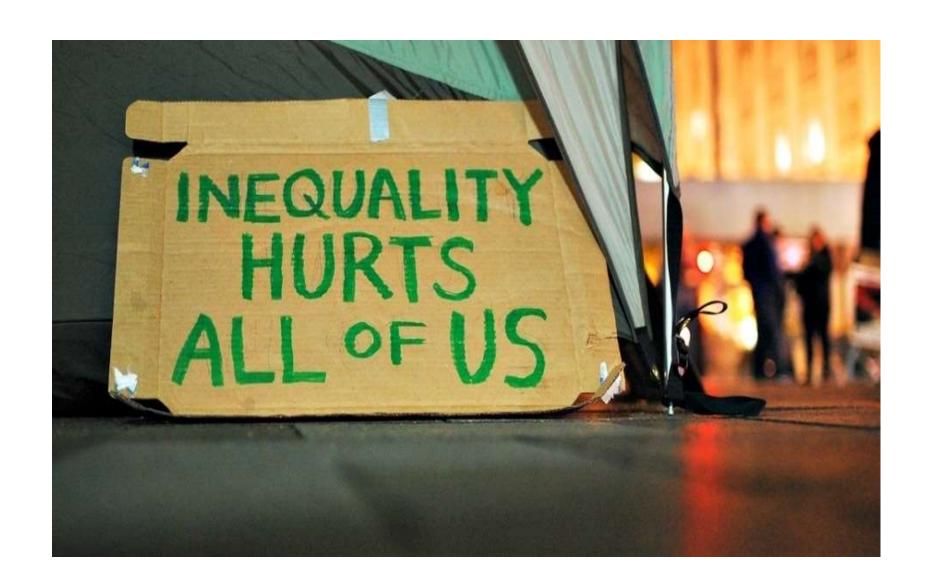


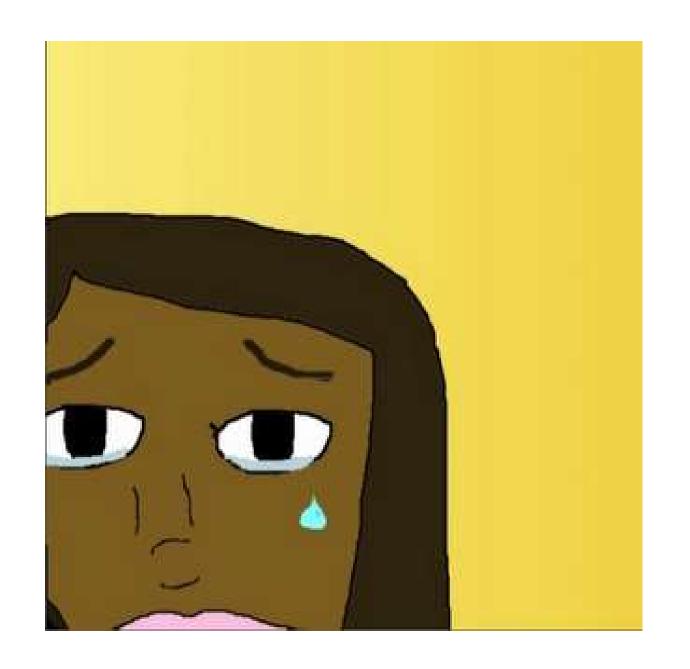


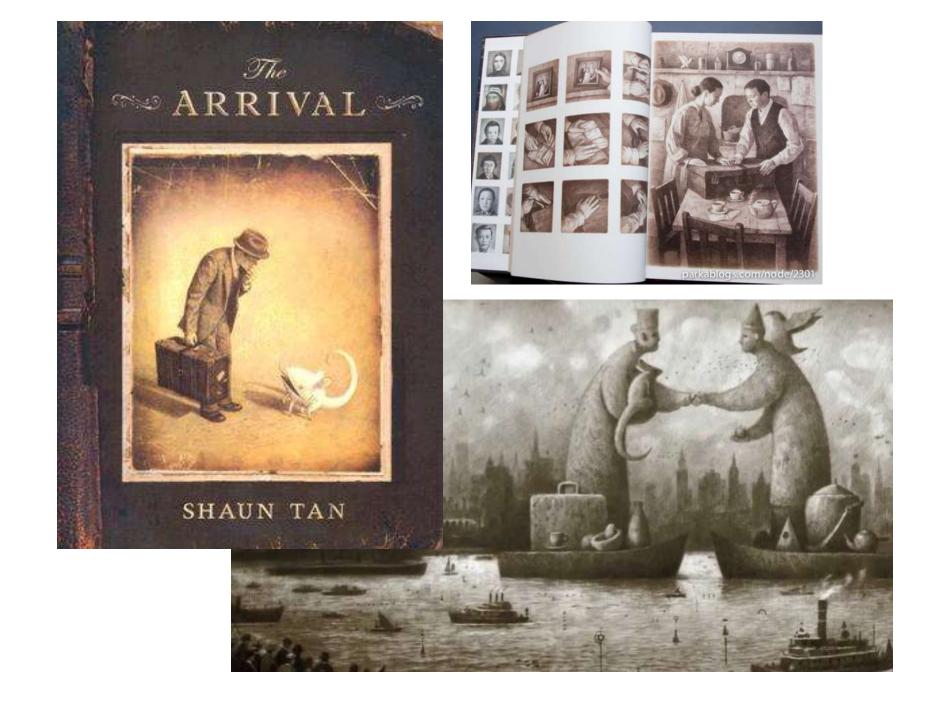
Times change.... 2016













foreign





Monolingue English only

EALICILLE

OUTSION

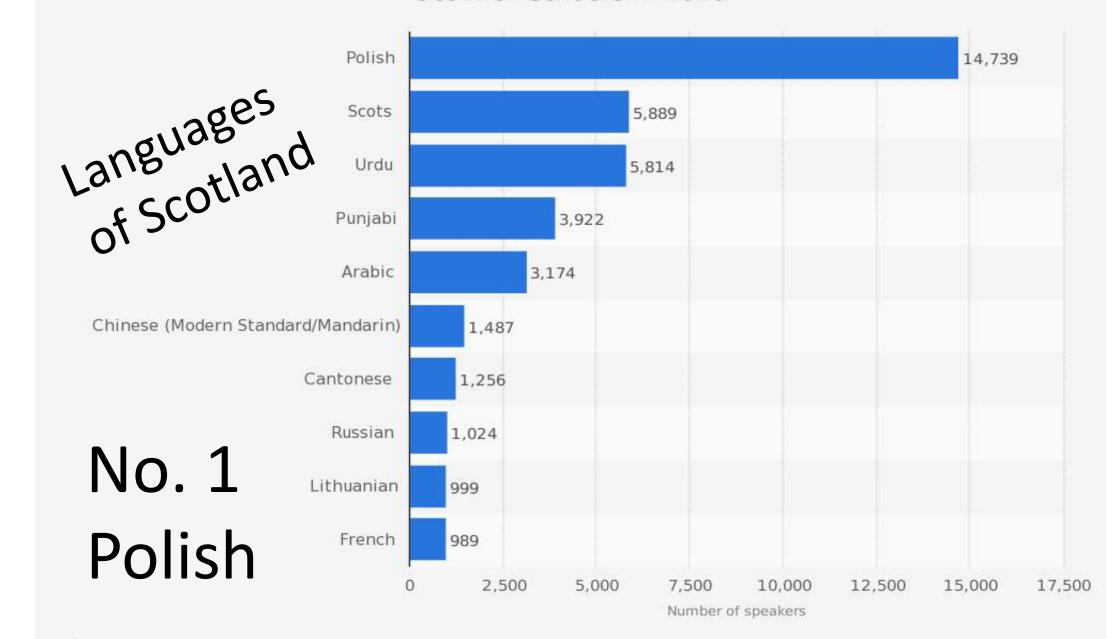






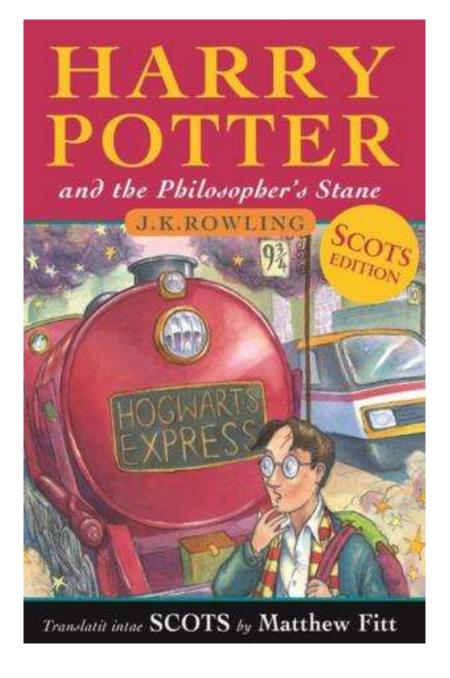


Non-English main home languages ranked by number of speakers in Scottish schools in 2016



Language is not about words... words alone are meaningless

Languages of Scotland



Scots

Language is never neutral

The International Commission on Education for the 21st **Century advocates**

FOUR PILLARS OF EDUCATION



LEARNING To Know

LEARNING

LEARNING

LEARNING

To Do

To Live Together To Be



As teachers we need to be 'Glocal'

70% world

Schooled in 2nd or 3rd languages is the NORM



OECD 2016 proficiency in several information-processing skills – literacy, numeracy and problem-solving in technology-rich environments

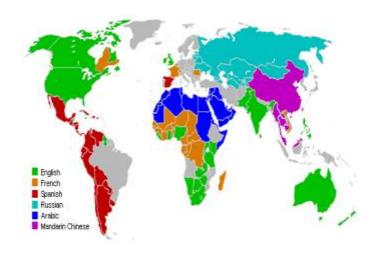






Shifts in Landscapes

- Societal changes
- Global concerns
- Policy and political imperatives
- Unprecedented digital advancement
- Fit-for-purpose education



The world we live in and the classrooms we learn in and the learners and teachers who work together are changing. A good news story...

curriculum for excellence



Confident Individuals

Linco respect

I have a commitment for porticipate respondicy in political, approach, social and rultural (fig.

I am oblis to develop traceledge and understanding of the world and my country's place in it.

I can understand different beliefs and cultures. I have enthrasiasm and entivation for bearing.

I have openness to new thinking and trians. I have determination to reach high standards of achievement.

l con use literacy, communication, and numeracy skills. vobiou prat beliefs.

Those secure:

Scan relate to others and manage myself.

I person o healthy and some lifestyle.

minb#Son.

Responsible Citizens

1 horse

Sam sett-retions

I can communicate in different ways and in different settings.

Loon work in pertnership sind in a leam.

Effective Contributors



Responsible citizens are pluriliterate citizens
What does this mean and why does it matter?

WHAT IS A PLURILITERATE LEARNER?

A pluriliterate learner is one who has understanding of how language makes thinking and learning work and has experience in meaning-making, problem-solving and being creative in more than language — a right for all learners

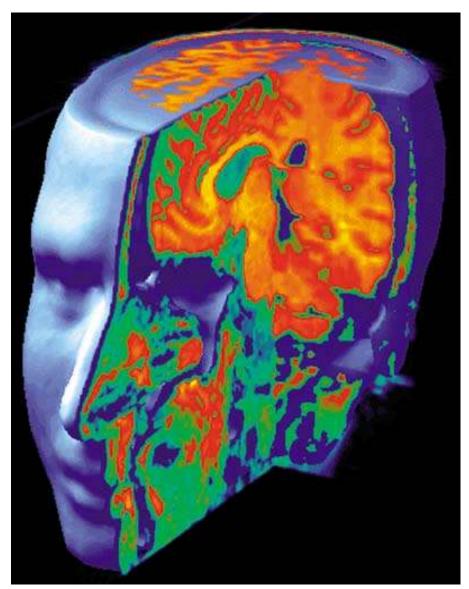
Working Document Proposal for Council of Europe Recommendations: A comprehensive approach to the teaching & learning of languages, May 2018



Recommendations: Language Aware Schools

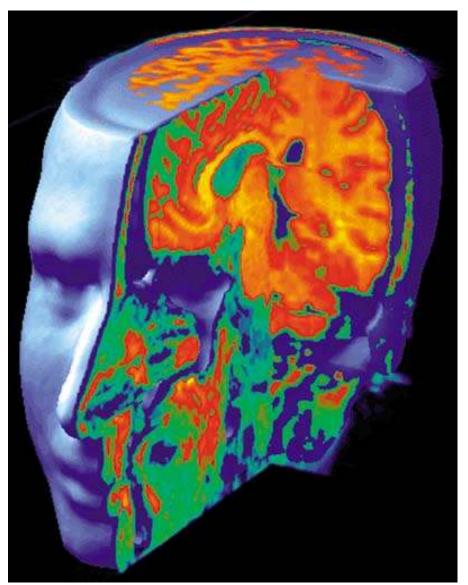
- To improve language competences
- To broaden the scope of literacies teaching
- To ensure schools are aware of the linguistic diversity in their pupil population, offering them opportunities to create language-rich learning environments where multilingualism can flourish and the language of schooling can be adequately supported
- To shift language teaching and learning so that constructing new knowledge and understanding involves more than one language for all learners

Language as Learning Tool



#Cognitive tool i.e. for constructing knowledge specific to themes, phenomena or subject disciplines #Meta-cognitive and linguistic tool i.e. learning how to learn and 'reflective' intervention'(Bruner) Using language to learn

Language as Learning Tool



#As the medium and/or object of learning ~ language using is not the same as language learning (English, Gaelic and other languages)

#For **social connectivity** and intercultural understanding

Challenging the siloed curriculum at all ages and stages



PluriLiteracies Approaches

Research tells us that cognitive processes are deepened and strengthened when triggered and scaffolded using more than one language and result in improved literacies in the language of schooling, encourage creativity and confidence and motivate young people to extend their understanding of the world

Pluriliteracies Approaches

- 1. Growing language aware classrooms not only of our pupils but of ourselves (linguistically and culturally)
- 2. Being actively language aware of the **academic** demands of topics/themes/phenomenon(cognitively, culturally and communicatively)
- 3. Being inclusive different topics/disciplines have very different cultures, very different discourses which become increasingly nuanced i.e. progression.... My awareness, my planning!

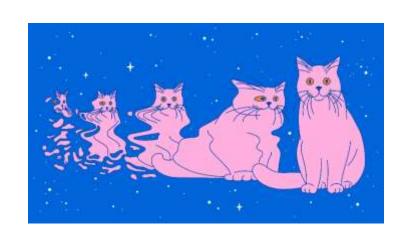


Academic Language is nobody's mother tongue

Evidence of understanding through creative language use



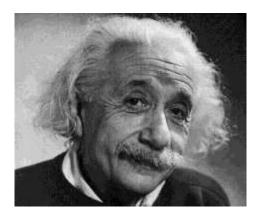
Quantum states...





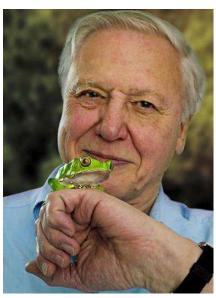
http://youtu.be/d1tn56vWU g

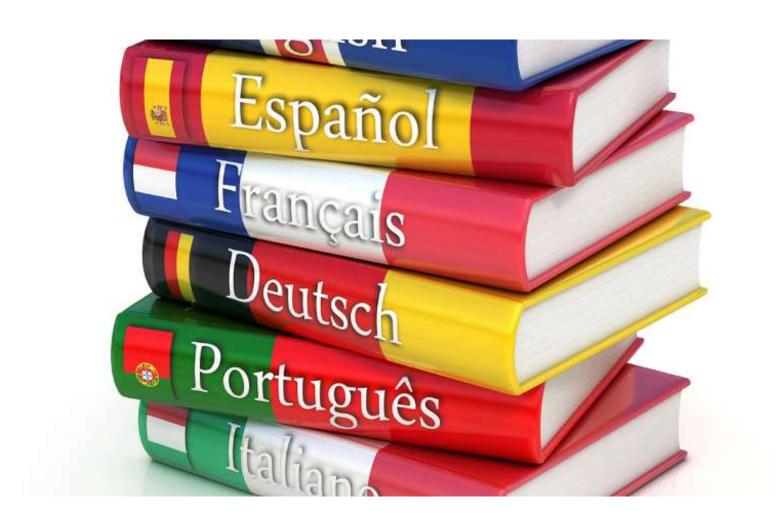
Behaving like.....













To Language is a verb







Le paysage gothique de Maria aged 11



From gothic literature and landscapes to people descriptions, from 19th century clothing to evolution of fashion and emancipation for women, Coco Chanel and so on.......

Il y a un arbre.

Il y a une maison.

On remarque un arbre solitaire et mort et derrière l'arbre. On remarque aussi une maison qui a l'air d'être hantée.

Histoire au PASSE! → IMPARFAIT

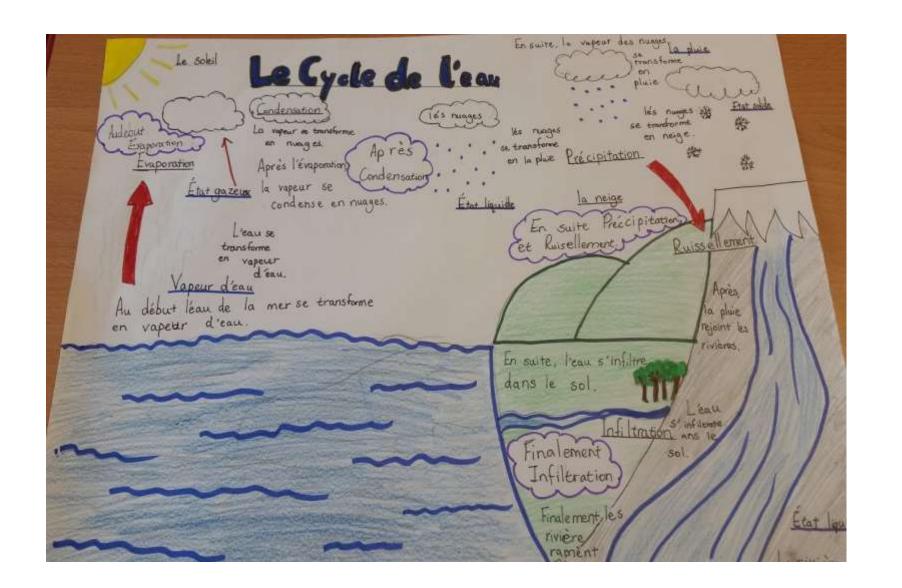
On remarquait un arbre solitaire et mort. Derrière l'arbre on remarquait une maison qui avait l'air d'être hantée et on sentait l'odeur du bois pourri.

Using language to raise awareness of literacy practices of expert authors and as a learning tool



MON PAYSAGE GOTHIQUE

Dans cette illustration on était dans un cimetière. Le cimetière était un de l'endroit typique de les paysages gothiques. Les couleurs qui étaient présent, dans cette illustration étaient le gris, le blanc mais surtout le noir. Dans le cimetière il y avait un silence si grave que tu pouvais entendre une broche tomber mais tout à coup il y avait le cri d'un hibou qui a brisé le silence. Le temps était nuageux et il y avait de la brume et les arbres étaient presque morts. On entendait une atmosphère sombre et mystérieuse.



Planning for Learning

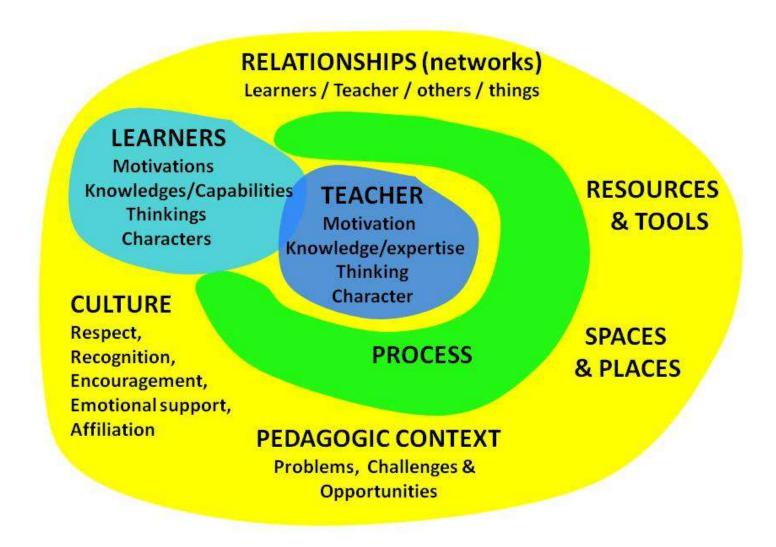
becomes



Designing the learning environment – emphasis is on LEARNING

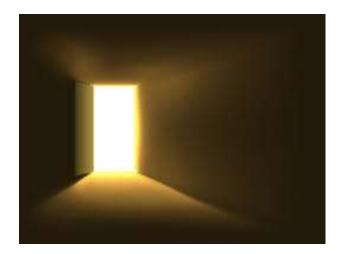
What you want\LEILA\LEILAyuttarodata\Experiment - the camera (2).mov

Learning Ecologies



Doors, windows and opportunities

- Emphasis on literacies across the curriculum
- Building on 'multicultural' schools
- Aspirational 1 + 2 Policy in Scotland
- A shared alternative (new) language is a great leveller for all teachers and learners
- Strengthening cognitive-languages connectivity and making it transparent for all learners impacts on learning



MESSAGE ONE

Living our shared responsibility towards our pupils- whose linguistic stories cannot be the same as ours since each is unique - to ensure we enable them to understand what being a pluriliterate citizen means i.e. pedagogic inclusion

MESSAGE TWO

Strengthening the cognitivelanguage link and making it explicit/transparent can lead to deeper learning which impacts on the quality of learning for any learners – we need to be language aware

MESSAGE THREE

To promote the meaning of 'academic' literacies for all by creating drawing, languaging, talking spaces for all learners through learning partnerships

MESSAGE FOUR

A pluriliteracies approach to learning is not about the teaching of another 'foreign' language, not about making our learners bilingual, not about having to be bilingual ourselves it is all about strengthening cognitive pathways and require a shift in mindset, thinking outside the box in terms of designing learning, learning partnerships – the impact is powerful and we can start small.....



Alice: This is impossible.
The Mad Hatter: Only if you believe it is.

reflection & dialogue

- With those around you
- 5 minutes to reflect on and discuss both presentations
- Any questions? What were the key issues/points for you? Connections to your practice/context?
- Please record 1 or 2 thoughts/comments/reflections/ questions on post-its





Professor Judy Robertson, Moray House School of Education

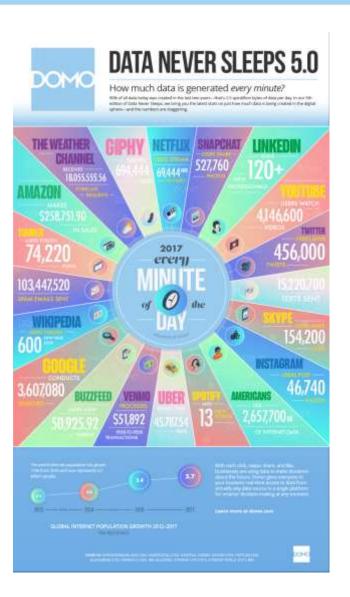


I want to convince you that

- Our world have changed we are now wading in data, and this influences society
- This is a huge opportunity data can help us make better decisions and direct our efforts
- Data also presents our society with new challenges
- We need data education for all to prepare our children to thrive in a data driven world



Ninety percent of the data in the world today has been created in the last two years alone. Our current output of data is roughly 2.5 quintillion bytes a day



...and is it reshaping our society *



*whether you want it to or not

Machine learning puts data to work

...and can work amazingly well



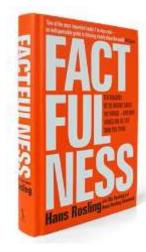


Al approach outperformed human experts in identifying cervical precancer Algorithm could revolutionize cervical cancer screening, especially in low-resource settings Dete: January 10, 2018 Source: NiH-Wational Cancer Institute Summay: A research team has developed a computer algorithm that can analyze digital images of a woman's cervix and accurately identify precancerous changes that require medical attention. This artificial intelligence (All approach, called automated visual evaluation, nati the potential to revolutionize cervical cancer screening, particularly in low-resource settings.



We humans should put data to work

- We all need to develop a fact-based world view
- Freely accessible world data sets help us to understand the world as it is (not as it was in 1965)





Politicians disregard facts

President Trump made 8,158 false or misleading claims in his first two years



Midway through his term, the president has accumulated many, many Pinocchios.







Glenn Kessler, Salvador Rizzo, Meg Kelly · 4 days ago

...so we need to know how to hunt facts down

Source: Washington Post https://www.washingtonpost.com/politics/2019/01/21/president-trump-made-false-or-misleading-claims-his-first-twoyears/?utm term=.9f2ee77ba23e





Why do we need data literacy?

- "data literacy allows for the development of citizens who can access and analyze data from government or from their own personal sensors in order to answer their own questions, giving them a powerful voice in a democratic society" (Gould, 2017)
- Statistical literacy leads to better decision making
- "Statistics should be like cooking" (Xiao-Li Meng, in Wild, 2017)

A data literate person:

"understands, explains, and documents the utility and limitations of data by becoming a critical consumer of data, controlling his/her personal data trail, finding meaning in data, and taking action based on data. The data-literate individual can identify, collect, evaluate, analyze, interpret, present, and protect data." (ODI 2015).





Note

Data literacy and digital literacy are not the same thing

The University of Edinburgh







HashelingShidthey tase is a group of positioners or the area of a common marking. On table of experient trainers marking through a distinct of the state of the s



Data Education in Schools

All children in the City Region will have the opportunity to excel in data education, regardless of their gender, location or financial circumstances.

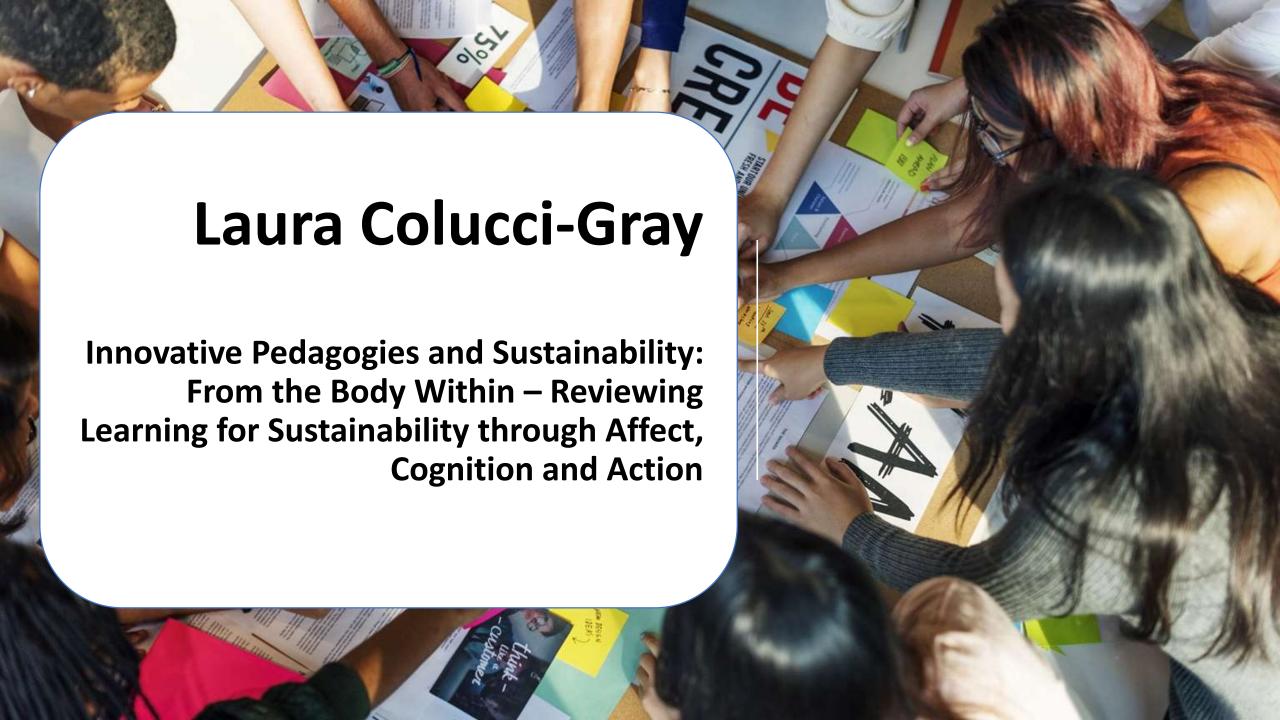
121k
Learners across the region over 8 years

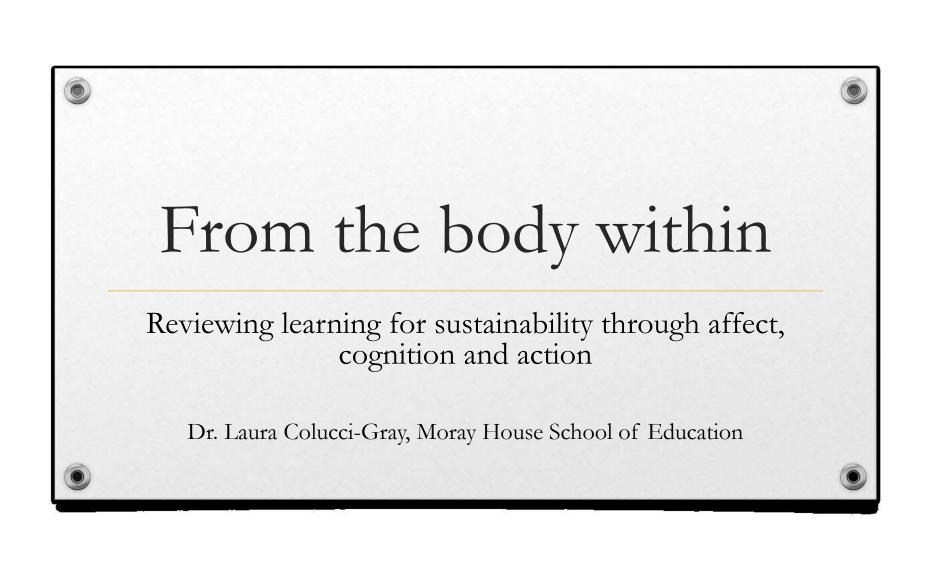


Come to the workshop to learn more

 Or email <u>kate.Farrell@ed.ac.uk</u> for information about our current projects, subject heading "Data Education in Schools"







How do we learn?

- Learning appears as a seamless activity
- ... of trials and errors....
- As we develop 'sense' of safety, risk, stability...

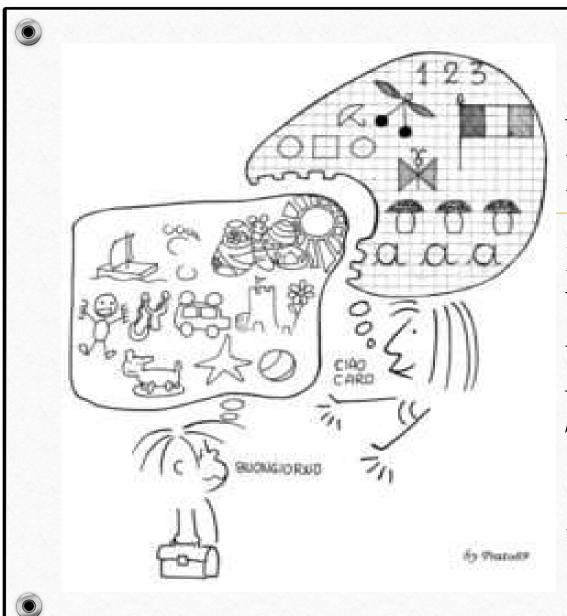












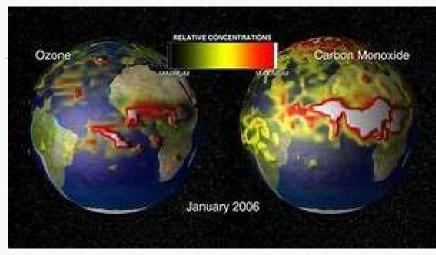
And then school happens....

Knowledge is codified into 'constructs' Which are acquired/transferred and validated as 'true' representations' of the world

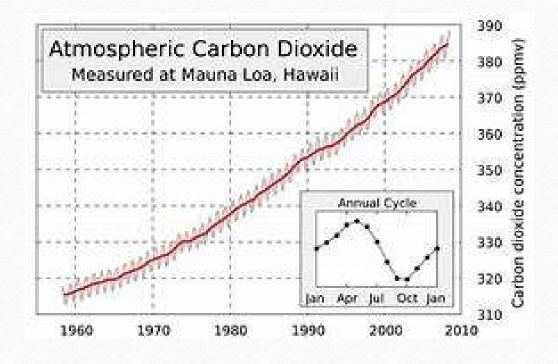
The learner's knowledge is taken to 'progress' from lower to higher levels of abstraction







We have never known so much about the Earth as we do know... quantities, trends, tables and charts collected and assembled **in real**





time...



... and so does the rate of change in society

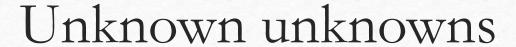
The rate of social and ecological change recorded and measured through data over the past 100 years has been so dramatic and perceptible to be comparable to the forces of evolutionary change











• E.g. Children and digital technologies

Digitally fluent at a young age....

...supporting and increasing attainment...

(Palaiologou, 2016)



Limited use of the body and effects on physiological functions

Reduced 'attention' and 'concentration'

Impact on social skills

Impact on manual skills

5555555555

(Smahel et al, 2015)

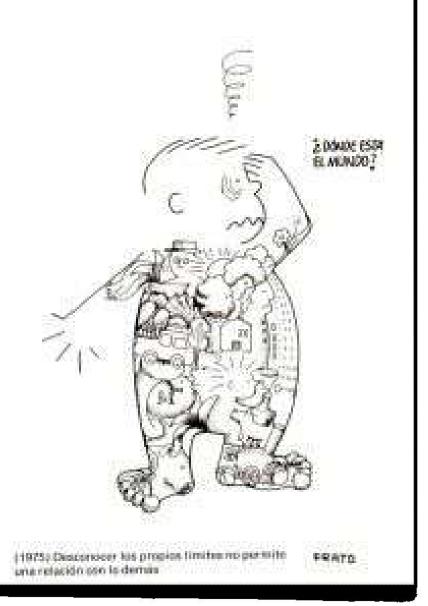






- ... while we carry out everyday actions,
- ... while we monitor impacts....
- ... While we develop new products....
- ... while we make decisions without evidence being available...

We are right in the middle of it!





I wish you to consider:

- 'Living in the middle' poses questions about the way we understand learning and teaching as practitioners, researchers, citizens and ... inhabitants of the Earth
- It troubles linear conceptions of 'knowledge' informing 'action'
- ... and calls for a more acute 'sensing' and 'knowing' as a form of relational awareness rooted in one's own body...





...embodied knowing

"We are not outside observers of the world. Neither we are simply located at particular places *in* the world; rather we are *part of* the world... (Barad, 2007)



Recovering the ability to *dwell* in the world, making sense of life through one's full moto-sensory capacities...

Ready to try?



reflection & dialogue

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Mapping the Connections

Learnings from Practice

