# What has outdoor and environmental education research got to do with me?

Trying to work with posthumanist concepts on the ground.

Jonathan Lynch, Otago Polytechnic (Work Based Learning) and EONZ Facilitator

# Tblisi Declaration – Guiding Principles

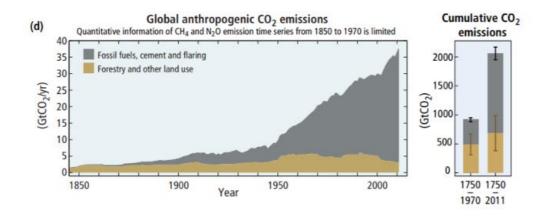
Environmental education should

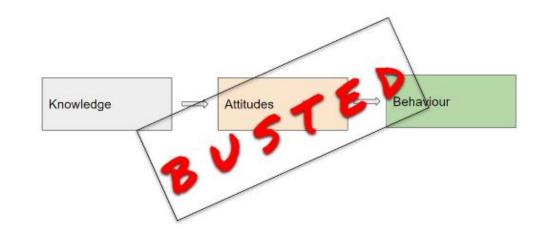
... be a continuous lifelong process, beginning at the preschool level and continuing through all formal and nonformal stages;

... utilize diverse learning environments and a broad array of educational approaches to teaching, learning about and from the environment with due stress on practical activities and first-hand experience.

...enable learners to have a role in planning their learning experiences and provide an opportunity for making decisions and accepting their consequences; 1977 - 47 YEARS AGO 1977 - 47 YEARS AGO

#### **Climate Change and Environmental Education**





(IPCC, 2014, p. 3).

## How is Environmental Education Evolving?

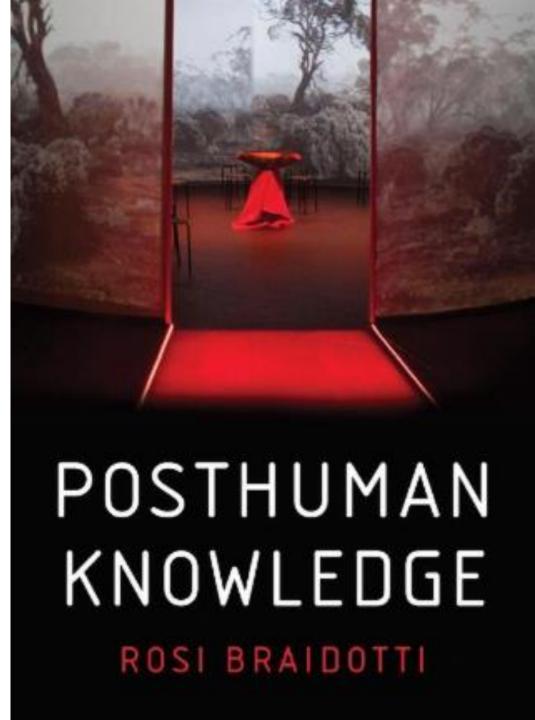
Education "in, about and for" the environment (Donaldson & Donaldson, 1958).

- Education 'in' the environment EOTC, OE, Outdoor Learning?
- Education 'for' the environment Education for Sustainability?
- Education 'about' the environment Science?
- Education *as* the environment

#### What is Posthumanism?

Philosophical project that is informed by poststructuralist thought, material feminism and science and technology studies.

The attention to the non-human aspects of the outdoors and the rejection of the centrality of 'man' (anthropocentricism) as the center of existence is attractive to our work in environmental education





CAROL A. TAYLOR CHRISTINA HUGHES

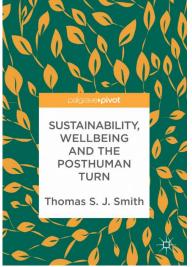


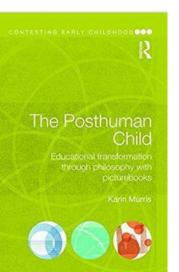


#### NEW MATERIALISMS AND Environmental education

Edited by David A. G. Clarke and Jamie Mcphie





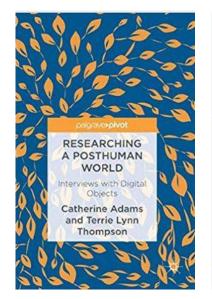


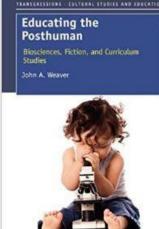


Arts based Approaches for Developing Participatory Futures









SensePublishers



Reimagining Sustainability in Precarious Times

2 Springer

Casey Y. Myers Children and Materialities

Children: Global Posthumanist Perspectives and Materialist Theories Series Editors: Karen Malone - Marek Tesar - Sonia Arnd

The Force of the More-than-human in Children's Classroom Lives

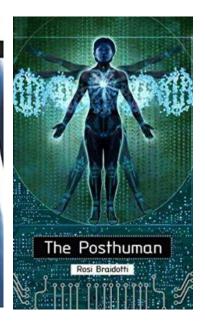
2 Springer

Posthumanism and Educational Research

Edited by Nathan Snaza and John A. Weaver

ROUTLEDGE INTERNATIONAL STUDIES IN THE PHILOSOPHY OF EDUCATION

R



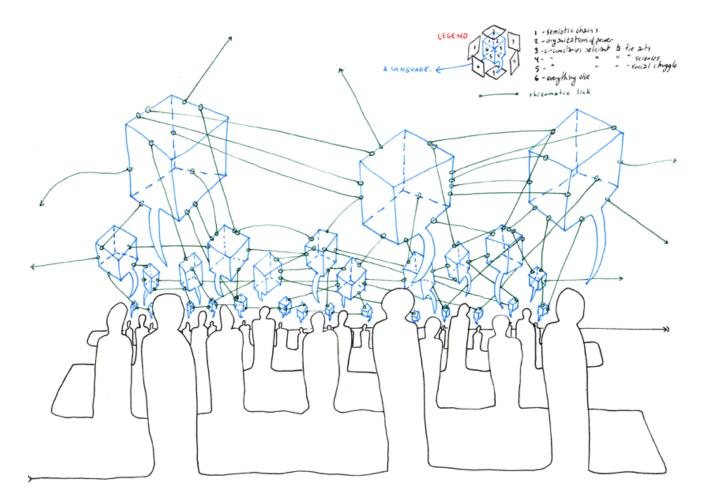
#### Posthuman Thought

Deleuze and Guattari (2004)

Concerned how the social and natural sciences explored problems in terms of closed and hierarchical systems

Instead – they argued for open, rhizomatic systems and maps.

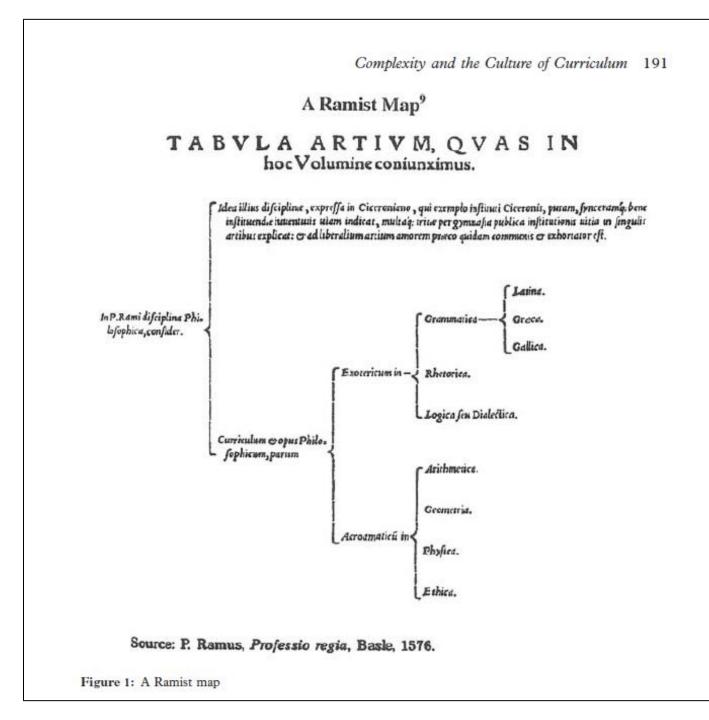
Concept creation and new thinking about problems are the goals



#### Carl Linnaeus (1707-1778)



CAROL		REGNU	UM ANI	MALE.
I. QUADRUPEDIA. Corper härberum. Peder querue. Femilae vivipare., helifere.	II. A V E S. Gryss planofilm. Me des. Pairs des. Patres affers. Fanke origine. III. A M P H I B I A. Gryss subset, will foundin. Dens: makers affers. Des in Pairs affer. III. A M P H I B I A. Gryss subset, will found in the subset of the subset. Tables for generation. Tables for gen	IVPISCES. Corpor spodum, piunis veris infraction, nudum, vel ligusmodum.	V. INSECTA. Goyer crufta olita cutis loco techum. Copur antennia inflructum.	VI. VERMES. Corporis May tus parte ball cuidam folidar affail.
Martin         Martin<	<ul> <li>Berner, Berner, B</li></ul>	Turbalachan Turba	Contract,     Contract,	Techyn         Oper min widd, min widd, min widd yn





## **Core Posthumanism Concepts**

- Challenges a reliance on language and representation in the production of knowledge (Barad, 2007; Braidotti, 2013).
- The human is decentred because it is constituted by many things (languages, bodies, desires, historical forces) (Colebrook, 2002, p. xiiii).
- Non-anthropocentric understandings of place place includes the material, the non-human/more-than-human, affects, relations.
- Assemblages are useful ways to understand our collaborative 'groupings' eg human, Smartphone, desires

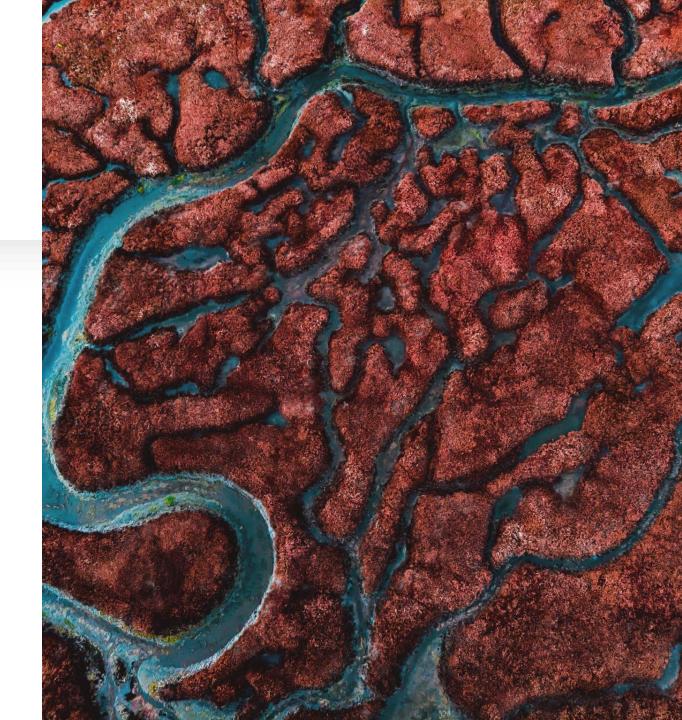
#### Posthumanism and Education

- The educator is not the sole planner of any curricula
- curriculum "is not a static thing, but rather a dynamic event that *happens*. Curriculum is a constant becoming." (Masny & Waterhouse, 2011, p. 287).
- Relations are what 'pull and push' us into contact with more-thanhuman elements in education. Relations are pedagogically powerful.

#### Posthumanism and Environmental Education

• 3 core ideas

- We are never separated from nature; in fact, the term 'nature' re-enforces the dualism of nature vrs culture.
- Rejecting human exceptionalism and opening our minds and dispositions to the more-than-human as coingredients in education.
- Relations are more important than entities.



#### Example 1- Teaching in Nature



"One of our research questions asked: what forms of relationship have been important here among pupils, teachers, activities and environments? Closer examination has revealed that, in part, it was the combination of non-human and human elements that made the lived experience of the curriculum possible in these cases." (Mannion et al, 2011, p.36) Scottish Natural Heritage Commissioned Report No. 476

**Teaching in nature** 





### Example 2 - Australia



#### Bushwalk in central Victoria

Tertiary students create a relational map collaboratively

Whilst walking, landscape was discussed as an assemblage of relations

Habitats, native species, water storage areas for the city, relics from mining, dumped rubbish etc.

Breaking the 'logic of separation' and building understanding of where we might start to act? (Jukes, 2023, p. 216)

Jukes, S. (2023). Responding to Climate Change Through Outdoor Environmental Education: Pedagogy for Confronting a Crisis. In *Learning to Confront Ecological Precarity: Engaging with More-than-human Worlds* (pp. 205-222). Cham: Springer Nature Switzerland.

### Example 3 - Canada



'Photographic Encounters' – activity for children to develop different ways of engaging with the land as co-ingredient in learning

"As I handed the children their disposable cameras, I watched them scurry about the wolf willow taking turns to capture their emotions in a photograph. Stumbling upon decaying animal bones and daisies in the grasses that represented both fear and joy to the children, I realised how incredibly insightful, perceptive, and creative they were."

Disposable cameras had no option to view, retake or check/delete. Spontaneity and relationship (with land) building tool (Riley, 2023, p. 93).

Riley, K. (2023). (*Re*) storying human/earth relationships in environmental education: Becoming (partially) posthumanist. Springer Nature.

### Example 4 – Aotearoa NZ



I would say this wouldn't be a digital place. Because this is a this is a special hidey hole. Do you know what I mean?

And there are sometimes when you really want to take a photograph, but you just don't, because you just you just know that **it's not the right time. Place.**" (Fig. 4)

Lynch, J. & Thomas. H. (in press). Digital Technology in Outdoor and Environmental Education: Affects, Assemblages and Curriculum-Making. *Australian Journal of Environmental Education.* 

Video-making ruptures established ideas around place-responsive practice needing to be grounded in a physical place.

*"The videos once made are not static.."* 

digital technology has potential to do work for us to link our practice to the wider world, but it is a complex web of relations that can be enabling and constraining.

# Posthuman Concepts for Environmental Education

- 1 Curriculum is not pre-made, it's assembled
- 2 Relations rule
- 3 Resist the logic of separation or anthropocentricism
- 4- Matter matters and it can have agency
- 5- Create new thinking and becoming's

### Activities

- Postcard on when you were nature [Resist the logic of separation or anthropocentricism]
- Relational walk and map-making [*Relations Rule*]
- Video-making as affective pedagogy beyond a location [*Relations rule*]
- Curriculum-making boxes [*Matter matters*]

How are we assembling...how are we focussing on relations...how are we resisting the logic of separation?



# Activities

+

0

Postcard – "when you were nature"



https://unsplash.com/photos/assorted-painting-lot-r4ay3dMFz1o

Take a 'blank postcard' Draw an image of a time you *were* nature.

Who might you send it to and what would the message be?

How might your learners respond to this activity?

What news ways of thinking about environmental education does it produce?

**Resist the logic of separation/ anthropocentrism** 

# Relational walk and Map making

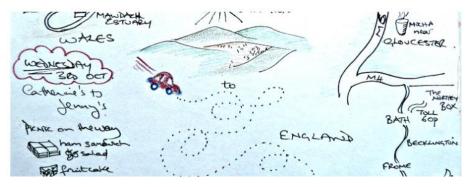
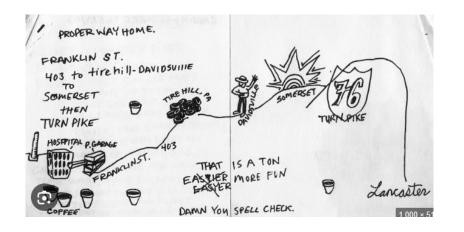


Image – <u>Journey Jottings</u>



Go on a walk and focus on things you encounter and the relations between them, you, and the planet.

For example, if you notice a tree, sit under it and think about the relations around the tree, those underground, with other species, other human's past and present

Take A3 paper with you and markers/pens. Stop in places and draw these relations, use postit notes maybe to mark were these relations become entwinned?

Make a Map...



#### Video-making





Create a 30sec video outside:

- 1. Find something outside where you can conceptualise multiple relations coming together. For example, litter/waste that links plastics with food production with capitalism ...
- 2. Make a 30 sec video about these relations
- 3. How might it be educationally useful? How can you harness the power of the network to find out more, communicate the problem to others, or advertise for collective action?

#### **Relations rule**

#### Matter matters





Explore outside and collect some material things that could be 'starting points' for an environmental education curriculum? Or a teaching moment? A class project...?

Matter matters

## New thinking and becoming's ...

- How did it feel working with these activities?
- In what ways did they encourage you to think about environmental education in new ways?
- In what ways did you find them difficult to engage with or to be productive?
- Have these activities produced any new thinking in you?
- How might these activities be useful to our work as environmental educators?
- What ideas for teaching and learning have they produced?
- What aspects of your work have they resonated with?
- What 'blank spots' have they illuminated or created?

### References

Barad, K. (2007). *Meeting the universe halfway: Quantum physics and the entanglement of matter and meaning.* Durham, NC.: Duke University Press.

Braidotti, R. (2013). The posthuman. Cambridge: Polity Books.

Colebrook, C. (2002). Understanding Deleuze. Crows Nest, NSW: Allen & Unwin.

Mannion, G., Fenwick, A., Nugent, C., and l'Anson, J. (2011) Teaching in nature. Scottish Natural Heritage Commissioned Report No. 476

I. P. C. C. (2014). Climate change 2014 synthesis report. IPCC: Geneva, Szwitzerland, 1059-1072.

Donaldson, G. W., & Donaldson, L. E. (1958). Outdoor Education a Definition. *Journal of Health, Physical Education, Recreation*, 29(5), 17-63. <u>https://doi.org/10.1080/00221473.1958.10630353</u>

Deleuze, G., & Guattari, F. (2004). A thousand plateaus: Capitalism and Schizophrenia. London: Continuum

Masny, D., & Waterhouse, M. (2011). Mapping territories and creating nomadic pathways with Multiple Literacies Theory. *Journal of Curriculum Theorizing*, 27(3), 287–307. Retrieved from <u>http://journal.jctonline.org/index.php/jct/article/viewFile/155/21MasnyWaterhouse.pdf</u>

# Slides to print as provocations to sit on the desk

#### **Ecology Without Nature**

In order to activate ecological awareness fully, we must drop the concept Nature, which I capitalize in order to emphasize how it is not "natural," but rather an artificial construct. Nature is nowhere given to me in my phenomenal experience. I see rabbits, I see thunderstorms, I hear the mewing of cats. But I fail to see or otherwise sense Nature. Perhaps then Nature is the totality of a certain set of things. I go about constructing this set: birds, fish, mammals ... Yet by definition the set always excludes something. Let us add nonliving forms such as iron deposits and chalkhills, which are made of lifeforms - as are most of the top levels of Earth's crust. This set excludes what lies below the crust and, say, the electromagnetic shield around Earth that protects it from solar rays, and so enables life to evolve. So let us now include nonlife in our set. I must then include the Sun, without which the chemical soup could not have developed into strands of complex proteins. And there is no way to stop the inclusion arbitrarily at the Solar System, since comets containing organic chemicals and the sheer fact that stars are made of all kinds of other materials prevents the set from being closed. Yet once Nature covers absolutely everything, it also includes spoons, computer software and traffic cones.

Timothy Morton (2009), Ecology without nature: Rethinking environmental aesthetics. Harvard University Press

#### Sustainability [without posthumanism]

"modelled as it is on the logic of intergenerational inheriting, such a notion of sustainability is limited in its ability to help think through the entangled, multi-species temporality in which responsibility for the past, present, and future converge. While it favours a rather bourgeois understanding of the future of our children, seen as extensions of ourselves and heirs—as an investment—it runs the risk of implicitly devaluing communities and kinships that are not typically perceived as our own."

# Curriculum Planning with the More-thanhuman

Accounting for more-than-human agencies means that we have to begin to consider how nonhuman actors directly participate in educational encounters. Such "objects" as chairs, textbooks, classroom spaces, chalk, iPads, pencils, worksheets, security cameras, and science laboratory equipment all *participate* in education: they are not mealy inert stuff that forms the background for a more important "human" learning experience." (Snaza et al., 2016, p.xx).