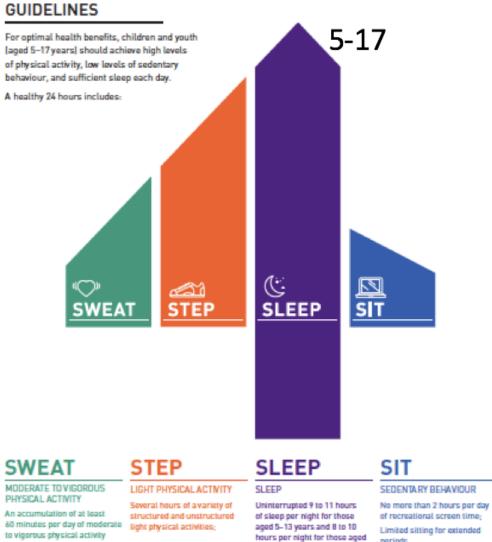
Human Sustainability

Quality movement experiences foster human sustainability and flourishing using physical literacy as the compass.







involving a variety of aerobic

activities. Vigorous physical

activities, and muscle and bone strengthening activities should each be incorporated at least 3 days per week;



of recreational screen time; Limited sitting for extended periods. 14-17 years, with consistent

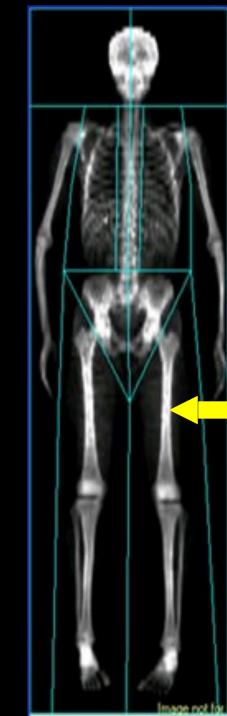
bed and wake-up times;

Physical Literacy What I have learned from Circus "Seeing potential"



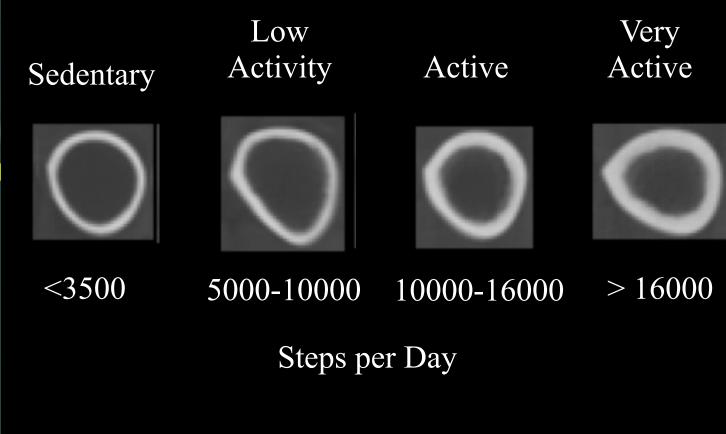


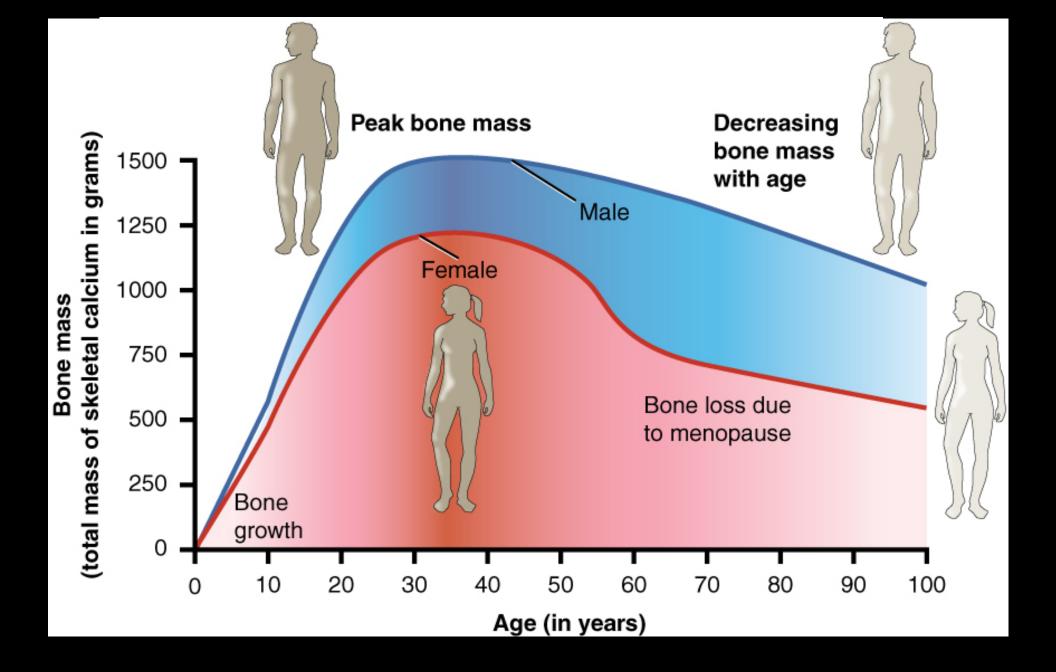




Children & Youth : Bones & Physical Activity

Bone Quality = density and architecture Bone quality is related to physical activity levels





POTENTIAL



THE Physical Literacy (R)evolution

Physical literacy definitions and consensus statements

THE ASPEN) INSTITUTE PROJECT PLAY

Physical literacy is the ability, confidence, and desire to be physically active for life.

2015

"No matter how many sidewalks we build, no matter how many parks we construct, no matter how much we urge people to get involved with physical activity, they simply won't do it unless they have the ability, confidence, and desire to be physically active. That's where physical literacy comes in."

> American Surgeon General, Vivek Murthy (June 27, 2015)

Canada's Physical Literacy Consensus Statement

Physical literacy is the motivation, confidence, physical competence, knowledge and understanding to value and take responsibility for engagement in physical activities for life.

International Physical Literacy Association, May, 2014

Définition de la littératie physique

La littératie physique se définit par la motivation, la confiance, la compétence physique, le savoir et la compréhension qu'une personne possède et qui lui permettent de valoriser et de prendre en charge son engagement envers l'activité physique pour toute sa vie.

Traduit de l'International Physical Literacy Association, Mai 2014

2015

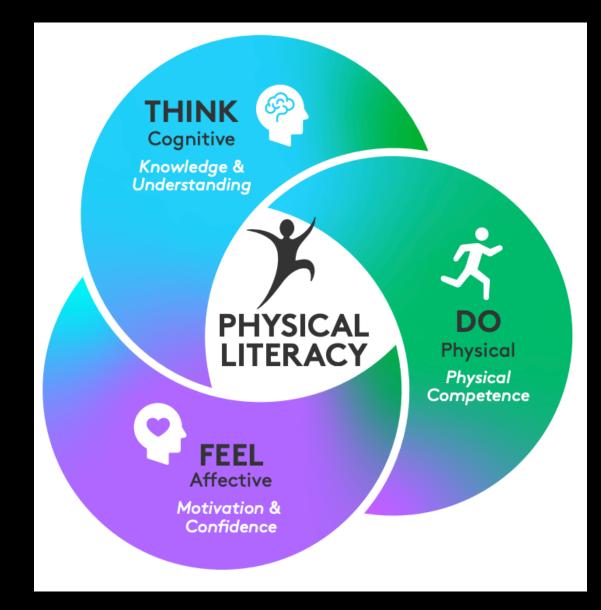
2016



Physical literacy is about building the skills, knowledge and behaviours that give us the confidence and motivation to lead active lives.

2019

Physical Literacy Consensus Statement for Ireland (All Island)



October 2022

Physical Literacy Consensus Statement for England

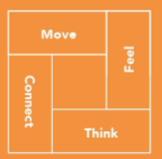
October 2023

Physical literacy is our <u>relationship</u> with <u>movement</u> <u>and physical activity</u> throughout life. A personal relationship Having a positive and meaningful association with movement and physical activity.



Movement and physical activity

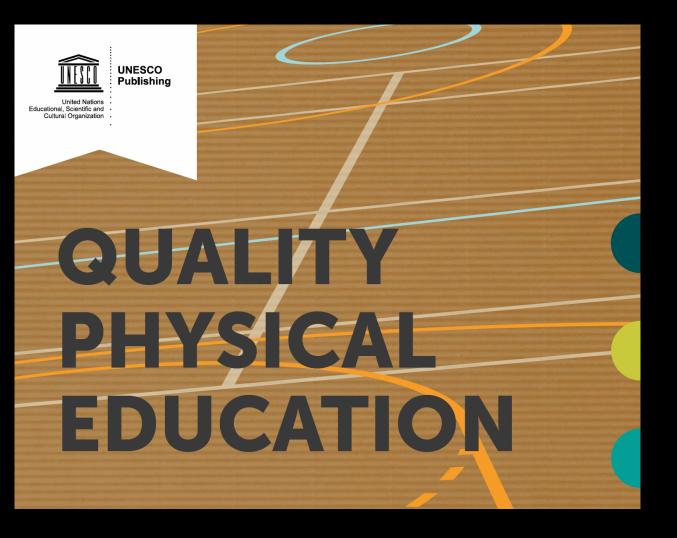
How we move (physical), connect (social), think (cognitive) and feel (affective) during movement and physical activity plays a crucial role.



Throughout life

Influenced across the lifecourse by individual, social and environmental factors.





https://www.cdc.gov/healthyschools/sher/characteristics/ index.htm

Physical literacy is the foundation of QPE.

Physical literacy is a key outcome of QPE.

MORE ACTIVE PEOPLE FOR A HEALTHIER WORLD



May 31, 2018

PHYSICAL LITERACY IN THE UNITED STATES

A MODEL, STRATEGIC PLAN, AND CALL TO ACTION



THE ASPEN INSTITUTE PROJECT PLAY









Physical activity for health More active people for a healthier world: draft global action plan on physical activity 2018–2030

OBJECTIVE 1 - CREATING AN ACTIVE SOCIETY

STRATEGIC ACTION 1.1. Implement best practice commu understanding of, and appreciation for, the multiple heal and community well-being.

PROPOSED ACTIONS FOR: MEMBER STATES

 Develop a national communication strategy for physical activity as part of, or aligned with, a national action plan on physical activity to raise awareness and knowledge of the health benefits of physical activity, promote behaviour change and increase health and physical literacy

A **Common Vision** for Increasing Physical Activity and Reducing Sedentary Living in Canada

LET'S GET MOVING

May 31, 2018

The Foundation: Physical Activity for All



The *Common Vision* is guided by five interdependent principles that are foundational to increasing physical activity and reducing sedentary living. They include **Physical Literacy**, **Life Course**, **Population Approach**, **Evidence-based and Emergent-focused** and **Motivations**.

Sports Medicine

March 2019, Volume 49, <u>Issue 3</u>, pp 371–383 | <u>Cite as</u>



Physical Literacy, Physical Activity and Health: Toward an Evidence-Informed Conceptual Model

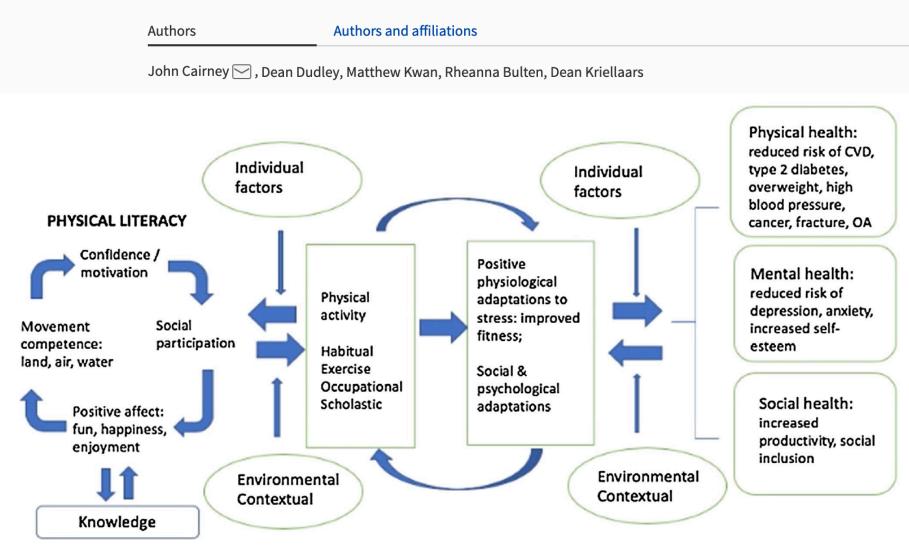
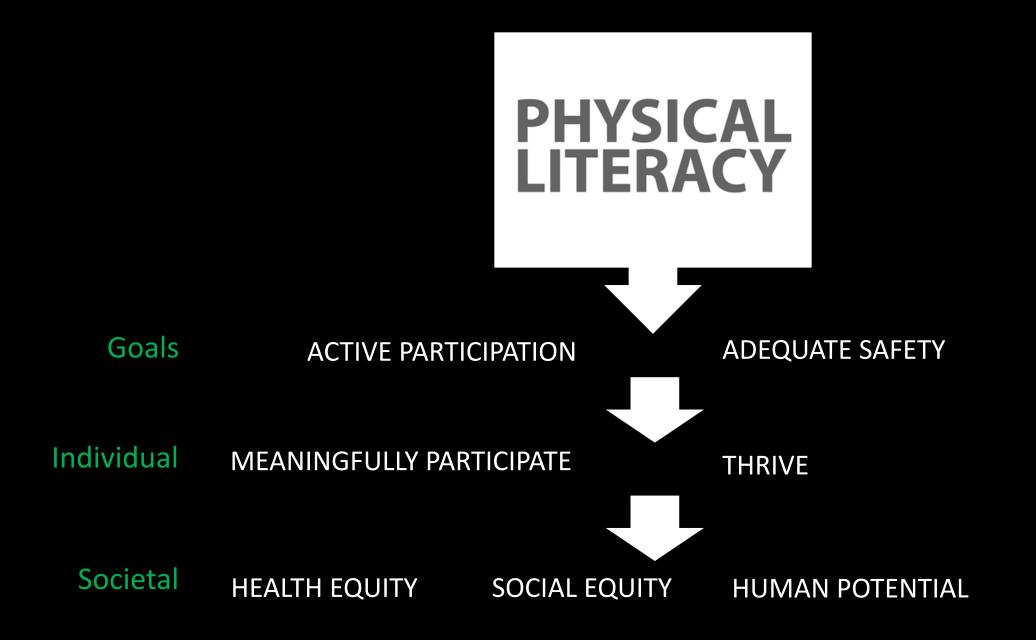
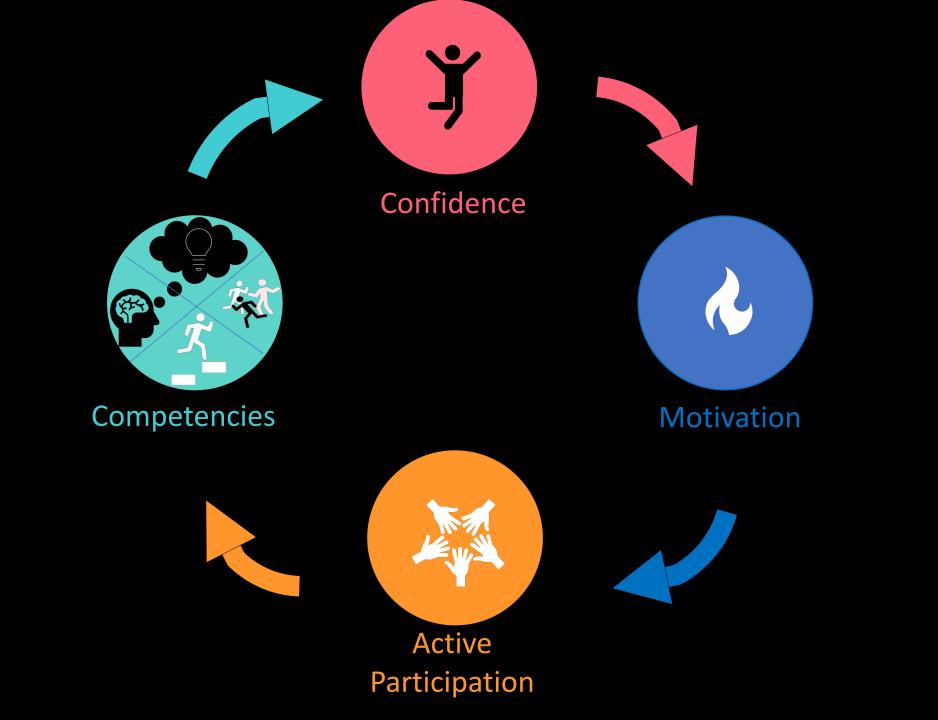
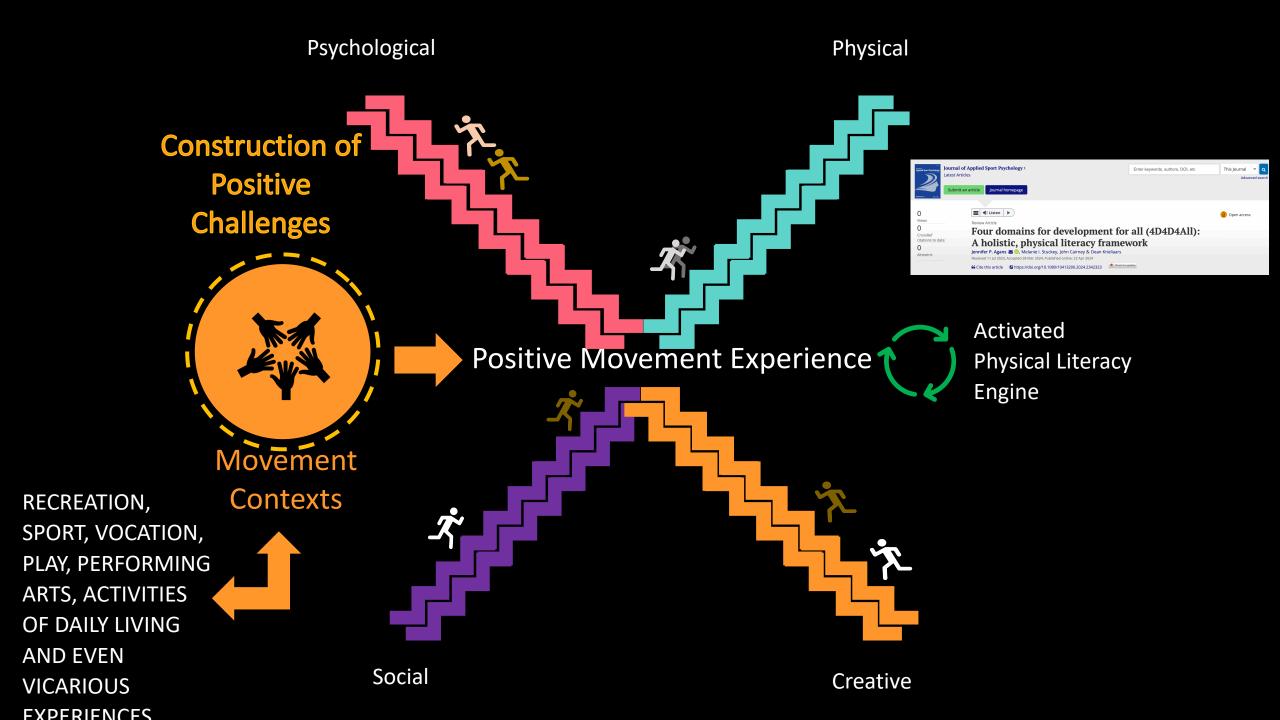


Fig. 1 Conceptual model linking physical literacy, physical activity and health. CVD cardiovascular disease, OA osteoarthritis

<u>https://</u> pubmed.ncbi.nlm.nih.gov/ <u>30747375/</u>







Parkour and Adventure Education Model

Movement Exploration

Substantial benefits to General and movement creativity

Substantial benefits to confidence and competence



Use of Parkour in Primary School Physical Education to Develop Motor Creativity, Divergent Thinking, Movement Competence, and Perceived Motor Competence

September 2024

Resilience

Overcoming adversity through construction of positive challenges using physical literacy.

•This study revealed that physical literacy is an excellent predictor of resilience in children.

•This supports that physical literacy enriched pedagogy applied to movement sectors may be a strong facilitator of children's ability to overcome adversity.

PERSPECTIVE article

Front. Public Health, 19 November 2019 Sec. Children and Health Volume 7 - 2019 | https://doi.org/10.3389/fpubh.2019.00346

This article is part of the Research Topic

Pre- or Post- School Influences on Learning Adaptations, Risks and Disabilities in Children and Adolescents: Overlapping Challenges for Public Health, Education and Development

Dean Kriellaars³

View all 9 Articles >

Physical Literacy and Resilience in Children and Youth

Philip Jefferies^{1*} Michael Ungar¹

Patrice Aubertin²

¹ Resilience Research Centre, Faculty of Health, Dalhousie University, Halifax, NS, Canada
² Center for Research Innovation and Transfer in Circus Arts, National Circus School, Montreal, QC, Canada
³ Faculty of Health Sciences, University of Manitoba, Winnipeg, MB, Canada

Background: There is growing interest in the relationship between physical and psychosocial factors related to resilience to better understand the antecedents of health and successful adaptation to challenges in and out of school, and across the lifespan. To further this understanding, a trans-disciplinary approach was used to investigate the association between the multidimensional constructs of physical literacy and resilience in children at a key stage in their development.

https://www.frontiersin.org/articles/10.3389/ fpubh.2019.00346/full

How do we construct positive challenges in movement settings and foster resilience?

Philip Jefferies

Physical literacy and resilience: The role of positive challenges

Littératie physique et résilience : Le rôle des défis positifs

ABSTRACT

Physical literacy is the competence to perform movement skills combined with the motivation, confidence, and understanding to value and take responsibility for engagement in physical activity across the lifespan. It has also been defined as the foundational attributes for beginning and maintaining physical activity, and therefore the capacity for an active lifestyle. The benefits of physical literacy include enhanced health through increased physical activity, and also improvements in confidence and participation, as individuals recognise their movement competencies and engage more fully with their environments. Growing recognition of the value of physical literacy has led to global drives to involve physical literacy in multiple sectors including broadening early childhood and elementary curricula to aid child development, with proponents arguing for it to be emphasised nilarly to literacy and nymorecy in

avoid poor default trajectories and inachieve positive outcomes stead (through recovery, adaptation, or transformation). This paper explores links between the two desirable and promising constructs of physical literacy and resilience, considering their conceptual interplay and the shared notion of engaging 'positive challenges' that may be essential for nurturing important resources when facing subsequent adversity. This connection provides the base for further robust empirical studies that involve both physical literacy and resilience and for the development of holistic resilience programme development.

KEYWORDS

Physical literacy; Resilience; Challenge; Adversity; Movement; Physical education; Curriculum.

RÉSUMÉ

La littératie physique est la compétence des individus pour exécuter des mouvements, aptitude combinée à la motivation, à la confiance en soi et à la compréhension nécessaires pour valoriser et assumer la responsabilité de s'engager dans une activité physique tout au long de la vie. Elle a également été définie comme les attributs fondamentaux pour commencer et pour maintenir une acti-



Physical literacy aids people in their ability to self organize their own behavior in adverse contexts (challenges to movement identity).

Creating Agents



BRIEF COMMUNICATION

When the world stops: The impact of COVID-19 on physical activity and physical literacy

Natalie E. Houser, M. Louise Humbert, Dean Kriellaars, and Marta C. Erlandson

Abstract: Matched pre-during pandemic comparison (160 children) revealed a substantial reduction in physical activity (p < 0.001, $r_{rb} = 0.83$), environmental participation (p = 0.046, $r_{rb} = 0.16$), movement valuation (p < 0.001, $r_{rb} = 0.61$), and parent perceptions of children's physical literacy (p < 0.001, $r_{rb} = 0.56$). Examining physical activity trajectories, higher pre-pandemic physical literacy protected children from pandemic related activity decline. Emerging from the pandemic, interventions should address children's eroded belief in movement and consider physical literacy levels of children in individualizing movement opportunities for restoration of activity levels.

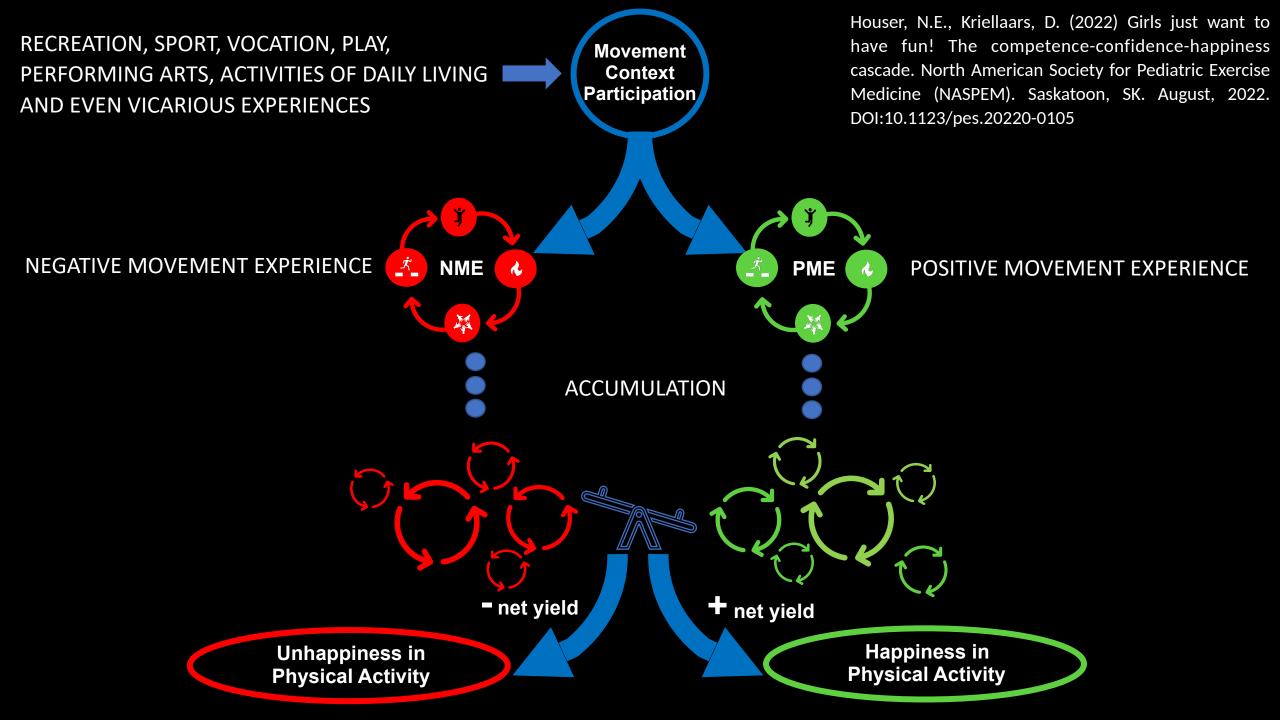
Novelty:

• A substantial reduction in physical activity was associated with children who had lower physical literacy and resulted in reductions in children's valuation of movement.

Key words: children, parents, pandemic, perceptions, movement valuation, trajectory.

- 85% of children reduced physical activity levels
- The number of children <u>not</u> meeting minimum PA standards DOUBLED
- Children's belief in the value of movement eroded substantially
- Children that didn't decrease PA (15%) were physically literate!
- PL & PA Similar patterns were observed for their parents

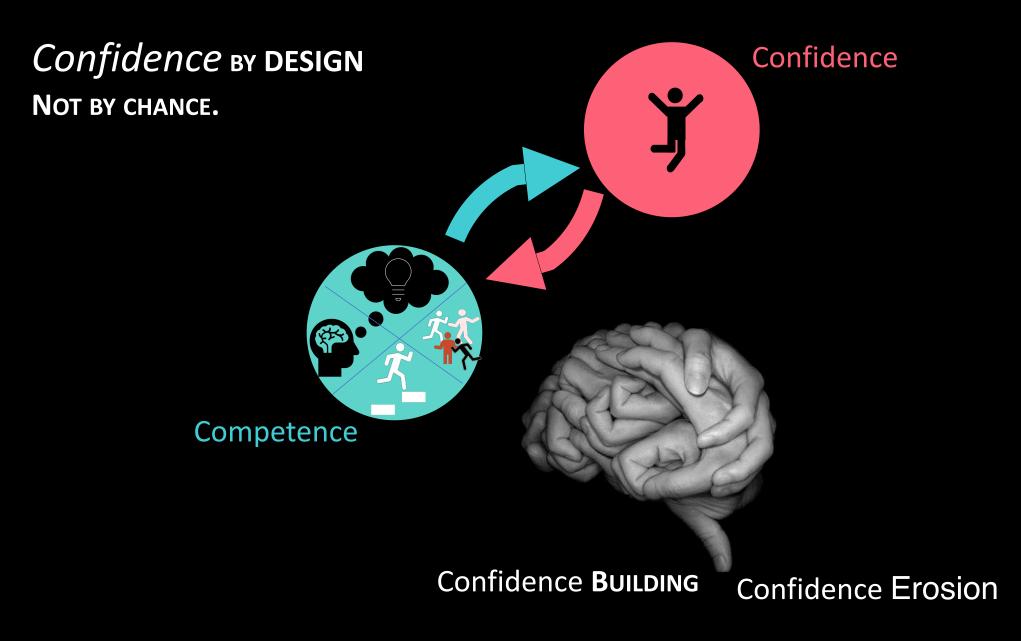




"Inner Trust"

Developing competence & confidence simultaneously creates a "belief in one's own ability", instilling <u>pride</u>, and development of one's movement identity.





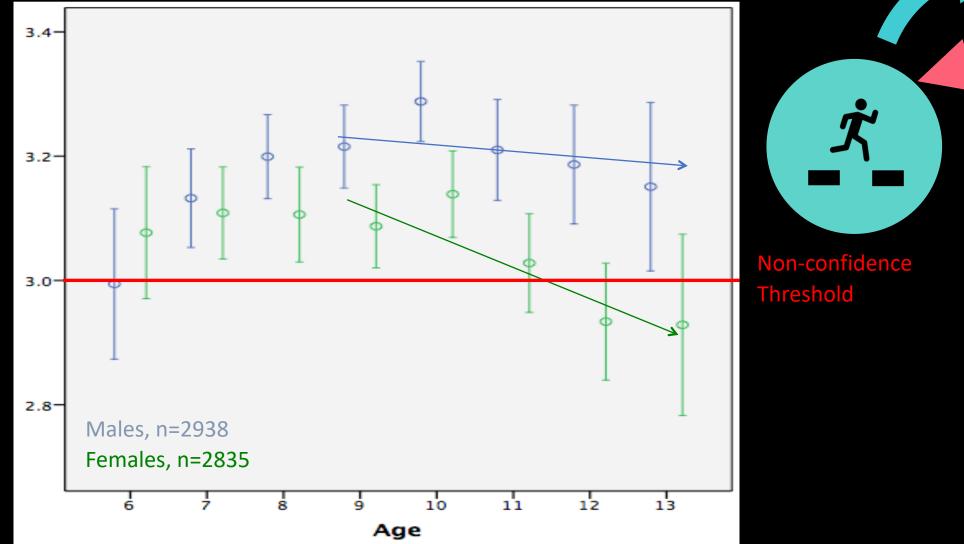
Gender Bias

Oppression

Motor Competence in Curricular Linked Skills (n=15,773, My Personal Best, 2014-16)

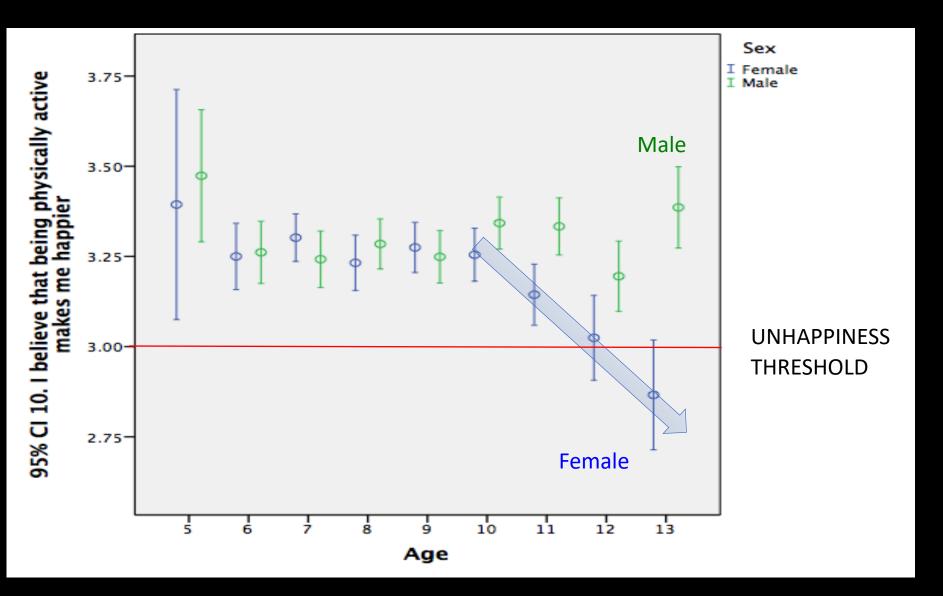


Confidence in Performing Activity



Confidence in activity (mean 95% Cl)

HAPPINESS and PHYSICAL ACTIVITY



Using circus in PE eliminates the gender gap in movement!

CAI in PE achieves curricular outcomes.

CAI in PE fosters creativity.

Journal of Teaching in Physical Education, 2019, 38, 162-170 https://doi.org/10.1123/jtpe.2018-0269 © 2019 Human Kinetics, Inc.



The Impact of Circus Arts Instruction in Physical Education on the Physical Literacy of Children in Grades 4 and 5

Dean J. Kriellaars	John Cairney	Marco A.C. Bortoleto
University of Manitoba	University of Toronto	University of Campinas
Tia K.M. Kiez	Dean Dudley	Patrice Aubertin
University of Manitoba	Macquarie University	Ecole National de Cirque

Objective: To examine the impact of circus arts instruction in physical education (PE) on the physical literacy of children in Grades 4 and 5. **Methods:** A clustered, quasi-experimental design was used comparing children in schools with circus arts instruction in physical education (n = 101) with children in socioeconomic status-matched schools using standard PE instruction (n = 110). Physical literacy assessments performed at the beginning and end of one semester using the Physical Literacy Assessment for Youth tools. **Results:** Significant improvements in motor competence for both groups; endpoint differences favored the circus arts instruction in physical education schools for 15 of 18 movement skills for Grade 5 and 7 of 18 skills for Grade 4 (p < .05), with corresponding increases in children's confidence and comprehension of movement terminology, as well as active participation. The gap in motor competence between girls and boys in the circus arts instruction in physical education schools. **Conclusions:** Circus arts instruction enriched PE can effectively aid in the development of physical literacy in children with greater gender equity.

Keywords: confidence, elementary school, gender, motor competence

Evidence supporting physical literacy enriched physical education.

PLitPE developed the psychological domain (affective and cognitive) and significantly improved physical competence.

Concerning sex differences, the intervention yielded an equal and substantive improvement in both males and females in the intervention group.



PLitPE: an intervention for physical literacy enriched pedagogy in Canadian elementary school physical education classes

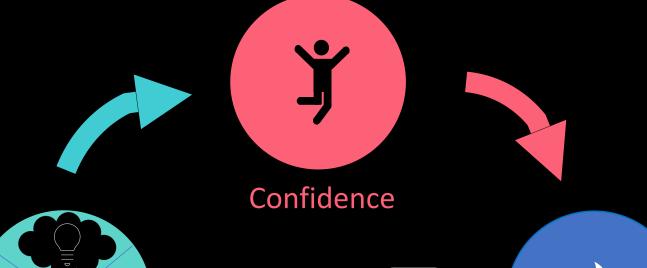
Alexandra L. Stoddart, M. Louise Humbert, Serene Kerpan, Nicole Cameron & Dean Kriellaars

To cite this article: Alexandra L. Stoddart, M. Louise Humbert, Serene Kerpan, Nicole Cameron & Dean Kriellaars (2021): PLitPE: an intervention for physical literacy enriched pedagogy in Canadian elementary school physical education classes, Physical Education and Sport Pedagogy, DOI: 10.1080/17408989.2021.2014438

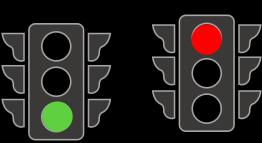
To link to this article: <u>https://doi.org/10.1080/17408989.2021.2014438</u>



Emotions













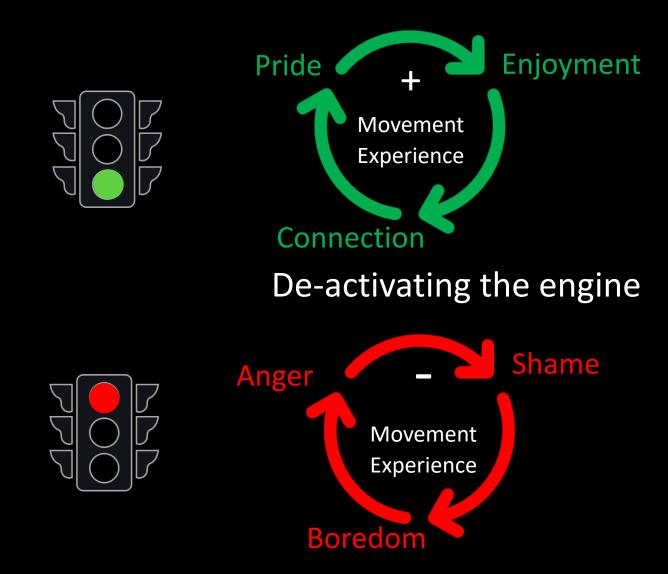
Motivation





Active Participation

Activating the engine



Using physical literacy as a pedagogical approach can create positive movement experiences for 98% of participants!

Emotional experiences are tied to physical literacy, movement valuation and self-esteem. Applied Physiology, Nutrition, and Metabolism

OPEN ACCESS | Research Article

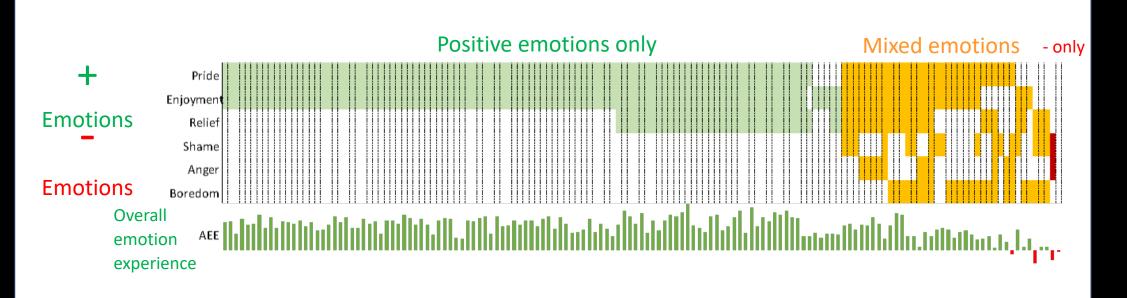
Investigating the relationship between emotions and physical literacy in a quality physical education context

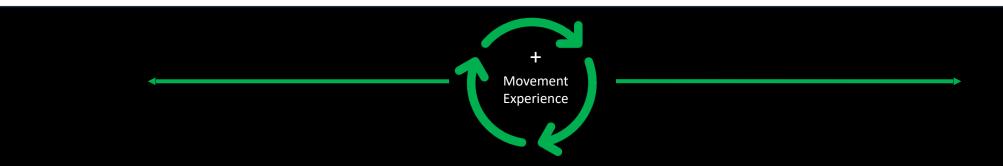
Adam Woolley [©]^a, Natalie Houser^b, and Dean Kriellaars^a

^aRady Faculty of Health Sciences, University of Manitoba, Winnipeg, MB, Canada; ^bCollege of Kinesiology, University of Saskatchewan, Saskatoon, SK, Canada

Corresponding author: Adam Woolley (email: Adam.woolley@me.com)

Quality Movement Experiences Fueled by Physical Literacy Positive emotions with negative emotions are protective.





Quality movement experiences were achieved through addressing the UNESCO components of quality physical education.

QME success was strongly linked to activation of the physical literacy cycle.

https://www.frontiersin.org/articles/10.3389/ fspor.2023.1185680/full

ORIGINAL RESEARCH article

Front. Sports Act. Living, 25 May 2023 Sec. Movement Science Volume 5 - 2023 | https://doi.org/10.3389/fspor.2023.1185680

This article is part of the Research Topic

Traditional Sporting Games and Play in physical education: Enhancing Cultural Diversity, Emotional Well-Being, Interpersonal Relationships and Intelligent Decisions, volume II

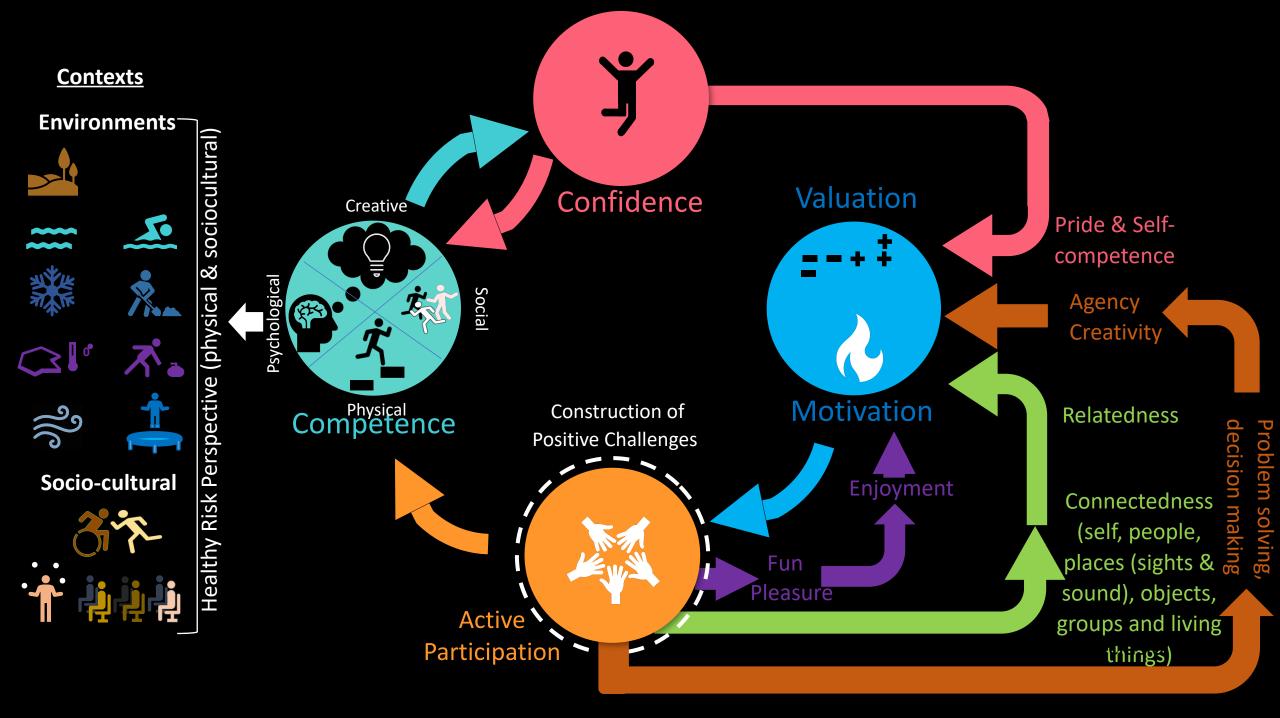
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"Where was this when I was in Physical Education?" Physical literacy enriched pedagogy in a quality physical education context

Natalie Houser* 🊺 Dean Kriellaars

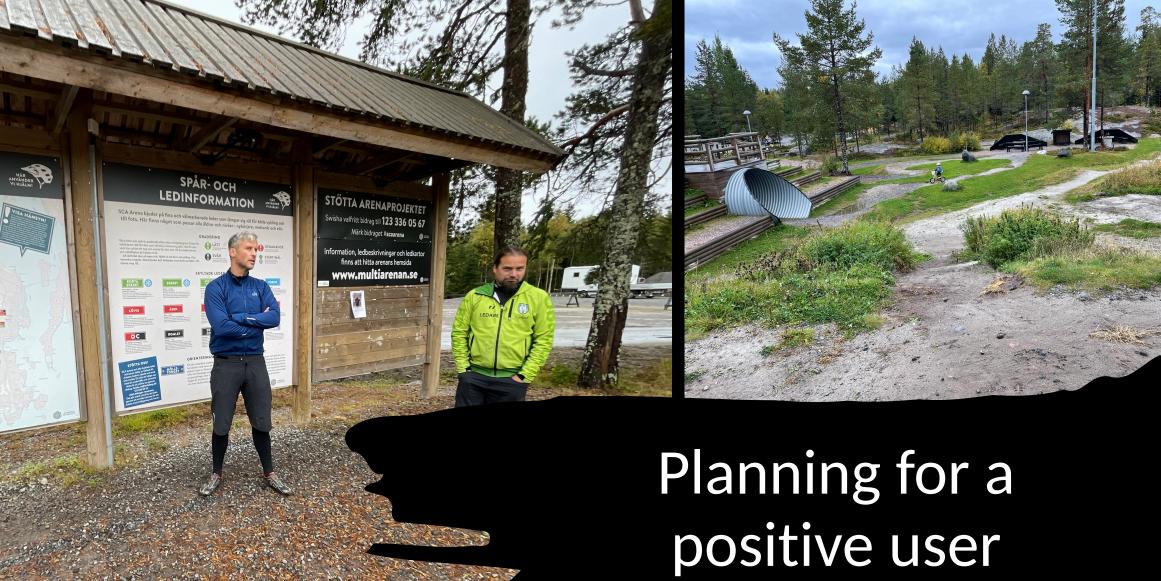
College of Rehabilitation Sciences, University of Manitoba, Winnipeg, MB, Canada

Introduction: In recent years, there has been a call to restructure physical education (PE) practices and outcomes. A physical literacy enriched pedagogy approach would support this change by more intentional design of lesson planning that includes concurrent development of competence & confidence and inclusion of students of all levels of ability, leading to holistic development of the student. Despite this potential, there is little research to date that outlines PE pedagogical practices with physical literacy as a foundation. The purpose was to explore pedagogical practices and perspectives from elementary PE teachers through a physical literacy enriched pedagogy lens in a high-quality PE context.



Human Sustainability

Quality movement experiences foster human sustainability and flourishing using physical literacy as the compass.



PÅ ARENAN TERRÄNGEN

experience

Physical Literacy Enriched Environmental Design (PLEED)

PLEED Principles

- 1. A level of challenge for all levels of ability
- 2. A type of challenge for all interests
- 3. Movement intersection
- 4. Movement opportunity
- 5. Affordances in movement contexts
- 6. 4 domain "neutral" risk approach
- 7. Connection



1. A level of challenge for all levels of ability

- Developing movement spaces that allow for all individuals to find a level of challenge suitable to them.
- A level of challenge for all levels of ability refers to not only physical ability, but also social, creative and psychological abilities.

2. A type of challenge for all interests

•People's interests vary, and if they are unaware of the possibilities they are constrained by awareness.

•Within a movement space, there should be different engagement opportunities that cater to different interests, allowing for all users to participate and have a positive movement experience.



3. Movement intersection



- We often design spaces segregated by function, level of ability, or cultural or gender norms.
- Movement intersection is a design approach to foster proximity of many types of movement, to activate the physical literacy engine.

4. Movement opportunity

- In a movement suppressed culture, the simple addition of convenient access to movement opportunities, usually provides increased movement.
- Giving everyone an equal opportunity to move within the many environments in which they interact, which may include prompts/encouragement to engage in movement opportunities



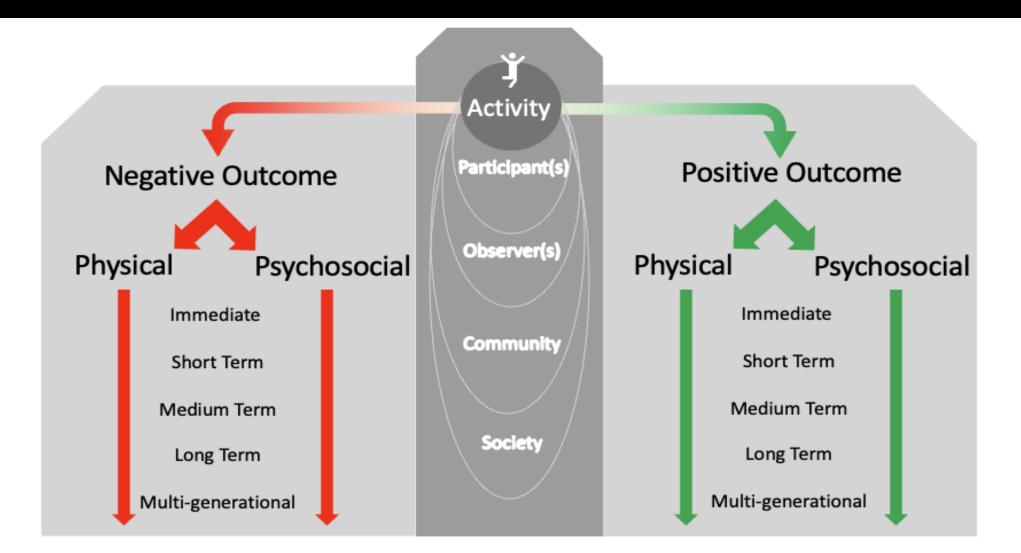


5. Affordances in movement contexts

- Encourage individuals to view spaces with the idea of "how can I use this space" or "what can I use this space for"
- If we set individuals up to view their environment as an affordance, the space can be used in an infinite number of ways, and in a way that each individual chooses.



6. Neutral risk





Read the summary.

https://www.unicef.ca/sites/default/files/imce_uploads/ UTILITY%20NAV/TEACHERS/DOCS/GC/ The_Convention_on_the_Rights_of_the_Child_abbreviated_ve rsion.pdf

Article 27 – Living Standard

The right of every child to a standard of living adequate for the child's **physical**, mental, spiritual, moral and social development.

Article 31- Leisure

The right of the the child to rest and leisure, to engage in play and recreational activities appropriate to the age of the child and to participate freely in cultural life and the arts.

The right of the child to participate fully in cultural and artistic life and shall encourage the provision of appropriate and **equal** opportunities for cultural, artistic, recreational and leisure activity.

Article 29 - Education Goals

The development of the child's personality, talents and mental and **physical** abilities to their <u>fullest</u> potential;

The development of respect for human rights and fundamental freedoms;

The preparation of the child for responsible life in a free society, in the spirit of understanding, peace, tolerance, equality of sexes, and friendship among all peoples, ethnic, national and religious groups and persons of indigenous origin;

The development of respect for the natural environment. Article 12: The Voice of the Child

Nothing for us without us!

Listening to The Voice of the Child

Read the full paper.

https://www.frontiersin.org/articles/10.3389/fspor.2023.1125072/full

7845 student's voices, aged 6 to 13

3 Contexts: School, Family, Friends

3 Literacies: Movement, Read/Write, Math





