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  - @zbpipe https://twitter.com/zbpipe?lang=en
Learning Environments
Makerspaces
Impact of Play and Learning
Health and Wellness
Real-world connections and critical literacy
Role of community
Infused with Technology
What is needed in a space that gives you a sense of well-being?

What do you consider an equitable learning space?
What does Equity in Learning look like?
What does it look like in action?
What does Equity Feel like?
The Feel of an Educational Makerspace

- Invite Curiosity?
- Inspire Wonder?
- Encourage Playfulness?
- Celebrate Unique Solutions?

For inquiry-based learning to occur, students must be attracted to the space and be inspired to use it. Attracting students to the space is the first big challenge. A makerspace without makers is just a workshop full of lonely tools. How does one attract students hungry to learn?

http://www.teacherlibrarian.com/2014/06/18/educational-makerspaces/
Community – a place for all people who welcome to learn, lead, teach, share, contribute

- The idea of inclusion is not only important for community organizations or schools serving underserved populations.
- Making involves an element of risk-taking - how do we create an environment where students are comfortable with taking risks?
- Willing to tackle the unknown? Be willing to fail? And is this part of WHY we make?

What is the role of Health and Wellness in our learning environments?
This classroom would like to recognize the enduring presence of Aboriginal Peoples on this land.

The City of Hamilton is located on traditional (Anishinabek) Territory. Our City is also just 15 km from Six Nations of the Grand River which is Canada's largest reserve.

Oval Traditions
Significance of Elders
Significance of Balance
Significance of the Community
Interaction with Community
Importance of Women & Listening
Impact of Our Foods on our Family
Respect for Traditional Knowledge
Experiential Learning
Importance of Values
Connection to the Land
Membership

This classroom will endeavor to incorporate Indigenous worldviews & principles into our lessons & practices.

This classroom will aim to highlight Aboriginal contributions to our way of living, learning and being.

We will never forget those that suffered at Residential Schools & those that continue to suffer as a result of past practices.
What are the specific health attributes of food we put in our body?
The Role of FOOD

Create a recipe for a smoothie and explain how the ingredients in each will help your body.

Connect it to First Nations Metis and Inuit Connection to the land.

Discuss the impact of farming on cities the Sustainable Development Goals.

Research bees and their decline and the role they play in pollination. GMO debate

Look at ratios by doubling/tripling a recipe.

What is food insecurity?

Does food mean something different to different people?
How does Equity impact Social emotional Learning
Equity –
Do we have a profound belief that all children are capable of constructing their own learning?
Constructionism vs. Constructivism

- “Constructionism”—the N word as opposed to the V word—shares constructivism’s view of learning as “building knowledge structures” through progressive internalization of actions... It then adds the idea that this happens especially felicitously in a context where the learner is consciously engaged in constructing a public entity, whether it’s a sand castle on the beach or a theory of the universe

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What does it look like in action?
Waldorf, Montessori and Reggio Emilia approaches emphasis the use of natural sunlight which inspired the small workspace under the window, surrounded by plants.
What does it look like in Action?
Oral Traditions

Significance of Balance

Interaction with Community

Significance of Elders

Importance of Silence & Listening

Respect for the Group Process

Role of Family & Community

Experiential Learning

Respect for Traditional Knowledge

Importance of Values

Connection to the Land

Mentorship
HOW DOES THE ART OF MAKING ALLOW US TO FURTHER DEVELOP PROBLEM SOLVING SKILLS AND ACADEMIC SKILLS THAT ARE NEEDED TO SOLVE WORLD ISSUES?
“Critical literacy ... points to providing students ... with the conceptual tools necessary to critique and engage society along with its inequalities and injustices. Furthermore, critical literacy can stress the need for students to develop a collective vision of what it might be like to live in the best of all societies and how such a vision might be made practical.”

Makers are motivated through problem solving, community action, collaboration and activism, rather than extrinsic rewards (Dougherty, 2017).
A waterdown was built around hwy 5, the problem with this is that I live on one side and I live on other side. the hwy has always made it hard to go to the other side when I was little and that made it hard to visit friends and be social.

Mandelbrot Fractals were created in 1977, a way created that fractal paper can cross without using paths with the help of an overpass

The blue circle is where most of the stores are and is the area where most of my friends live.
How are we BALANCING what we take and what we give back?
Big Idea:

How do Symbols in History help to understand ourselves?

How do lessons in history serve as metaphors to help understand and make meaning in own life?

What walls or barriers, concrete or abstract, are faced by our own citizens and how does this connect back to Berlin?

Equity –
How can we establish an environment where there is a real belief that all children are capable of constructing their own learning
What walls or barriers, concrete or abstract, are faced by our own citizens and how does this connect back to Berlin?
Can we redefine what it means to be a consumer?

- What is the social impact of mass textile production?
- How can repurposing address Global Goals?
- How do logos and branding work against individuality?
- Can you create a logo that represents you as a person distinct from commercial brands?
“Wherever making happens is a makerspace”

(Burke 2014; OPP Research Brief Series 2015).
Oral Traditions

Significance of Balance

Interaction with Community

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Mentorship
Farmer's Market Interview Questions

Hello and my name is Kevin, and I was wondering if I could do an interview with you. I am researching how your location affects your sales.

1. How many years have you been in the Farmer's Market?
2. Have you always been at this location?
3. (If no) Is this location better than the previous?
4. Do you get more or less customers based on your location?
5. Does location matter when you set prices?
6. Does the cost to run your booth change when you change locations?
7. Does location matter when you select your products?
8. Are there competitors who are selling some of the same products?
9. (If yes) Does your location help you in the competition?

RC Haist Farm
6 weeks
more
no
no
no
more expensive
no
no
yes
yes

RC Haist Farm
6 weeks
upper level

RC Haist Farm
6 weeks
upper level

RC Haist Farm
6 weeks
upper level

RC Haist Farm
6 weeks
upper level
In the Field
What makes your life special?

Family
Joy
Read
Love
Friends

Jesus
God

Loves
How do you define Play?
The proposed benefits of play, in the context of education, often fall into two categories:

- **developmental learning** (e.g., social and emotional skills, and self-regulation)
- **academic learning** (e.g., literacy and numeracy).

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**Spatial skills** – learning spatial relations, orientation and awareness

**Logic** – playing games that require comparative reasoning assists in developing abstraction

**Problem-solving** – this includes trial and error, dividing complex problems into smaller, easier elements, or reverting to a problem that’s already solved

**Mathematics on the chessboard** – chess is a great way to lay the foundations of mathematical logic, set and graph theory, geometry and combinatorics

**Simple algorithms** – rules systems to apply when solving a problem or completing a task; helps with learning the concepts of searching, sorting, operator precedence, and mapping.

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https://chessinstitute.ca/programs/stem/
“[Gaming] is literally the opposite of depression,” McGonigal said. “How can we bring the opposite of depression to everyday life?”

https://www.nypl.org/blog/2011/04/01/jane-mcgonigal-and-nypl-present-find-future-game
The benefits of play are recognized by the scientific community.

There is now evidence that neural pathways in children's brains are influenced by and advanced in their development through the exploration, thinking skills, problem solving, and language expression that occur during play.

Research also demonstrates that play-based learning leads to greater social, emotional, and academic success. Based on such evidence, ministers of education endorse a sustainable pedagogy for the future that does not separate play from learning but brings them together to promote creativity in future generations.

In fact, play is considered so essential to healthy development that the United Nations has recognized it as a specific right for all children.

*(CMEC, 2012)*

BENEFITS OF PLAY ARE RECOGNIZED BY SCIENCE

• Research also demonstrates that play-based learning leads to greater social, emotional, and academic success.

• Play expands intelligence, stimulates the imagination, encourages creative problem solving, and helps develop confidence, self-esteem, and a positive attitude toward learning. (Dr. Fraser Mustard)

• Learning through play is supported by many early years experts including Lev Vygotsky identified play as the leading source of development in terms of emotional, social, physical, language, or cognitive development.

• Psychologist David Elkind that “play is not only our creative drive; it’s a fundamental mode of learning.” Wood, E. (2004).


• Play sets the foundation for the development of critical social and emotional knowledge and skills.

• Through play, children learn to forge connections with others, and to share, negotiate and resolve conflicts, as well as learn self-advocacy skills.

• Play also teaches children leadership as well as group skills.

• Furthermore, play is a natural tool that children can use to build their resilience and coping skills, as they learn to navigate relationships and deal with social challenges as well as conquer their fears.

Pedagogical approaches

- collaborative learning
- cooperative learning
- experiential learning
- guided discovery learning
- inquiry-based learning
- problem-based learning
- project-based learning

When the students go home and tell their parents "We played Minecraft"... you'll know what they actually did...they delved deep into literature, collaborated, created, problem solved and shared. And they had fun!

Connected to PLAY/GAME And Social Emotional Learning
“When playing games, children feel a sense of agency, they are in control, they drive the experience”

(Farber, 2020)
Dixit (Latin: dixit, Latin pronunciation: ['diːksɪt], "he/she/it said"), is a French card game created by Jean-Louis Roubira, illustrated by Marie Cardouat, and published by Libellud.

I am trying to find the original creator of some of the slides, those with wood background (and the lovely title page). I would like to credit them and thank them for adding the images. I did contact the Dixit creators and was informed I may use the images and game in my remote classes as long as it is not for commercial and I must credit the creator of the image. If you use these slides, please do the same.

Please contact me: zoe.branigan.pipe@gmail.com or @zbpipe for questions or thoughts. It is a great game. I wrote about it at my blog: https://pipedreams.edublogs.org/wp-admin/post.php?post=1523&action=edit
Caption?
How do our schedules speak to Equity?
Today was our first day of Crews. Crews are multi-age teams built around shared interests. We have coloring, fish crews, Paralympics, gardening...

Our goal is for all students to feel a sense of belonging without having to compromise who they are.
How would your space be different?