SIWOK

Supporting Indigenous Ways of Knowing in Elementary Mathematics

APRIL 19, 2024

FACILITATORS:

REANNA DANIELS AND CHAD WILLIAMS

KNOWLEDGE KEEPER LAMARR OKSASIKEWIYIN

STF | PROFESSIONAL LEARNING



https://upload.wikimedia.org/wikipedia/commons/5/57/Intertwining_trees_forming_an_arch_over_a_model_steam_train_track._-_panoramio.jpg

WELCOME

OUR COMMITTEE

ORIGIN STORIES

High School Members:

- Kimberley Anderson - RPSD
- Penny Mohr - NESD
- Sharon Meyer - Elder
- Kathy Wahpepah - Elder

Middle Years Members

- Derek Hyland - LPSD
- Kristina Binette - LOCCSD
- Kirsten Dyck - PSSD
- Lana Steiner - PVSD
- Lamarr Oksasikewiyin - Sweetgrass First Nation

Elementary Members

- Cassandra Neufeld - CEF
- Chad Williams - PSSD
- Jessica Madriatta - RPSD
- Reanna Daniels - FNU
- Lamarr Oksasikewiyin - Sweetgrass First Nation

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n Elementary Mathematics



TODAY'S PATH

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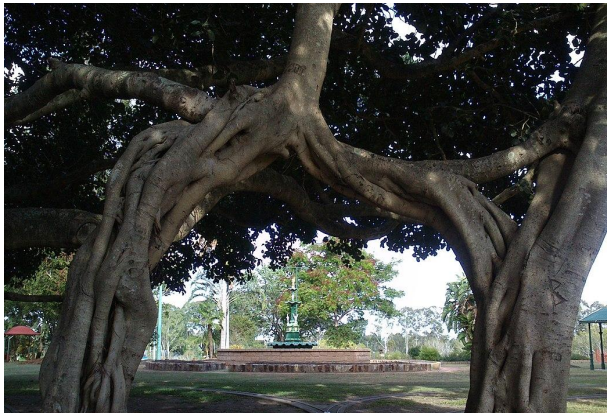
Supporting Indigenous Ways of Knowing
In Elementary Mathematics



Feedback Please!

https://forms.office.com/r/WSDZWZ3CvV

AGENDA

- Opening Welcome
- Traditional Games and Teachings
- Sorting It Out: High Quality Teaching in Mathematics and Authentic Teaching that Supports Indigenous Ways of Knowing in the Classroom

OUTCOMES

- Experience traditional teachings and make connections to mathematical practices, curriculum and assessment in the classroom.
- Explore Indigenous Worldviews and potential pathways to Two-Eyed Seeing in education.

SORTING OUT OUR UNDERSTANDING OF HIGH QUALITY TEACHING IN MATHEMATICS

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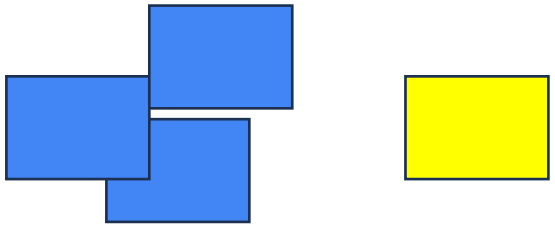
Individual Reflection:

- What are some of the teaching strategies or ways of doing math that really engage students and help them learn?
- Record 1 idea/sticky note. (Blue)
- What is one wonder or learning goal you had for attending today's session? (Yellow)





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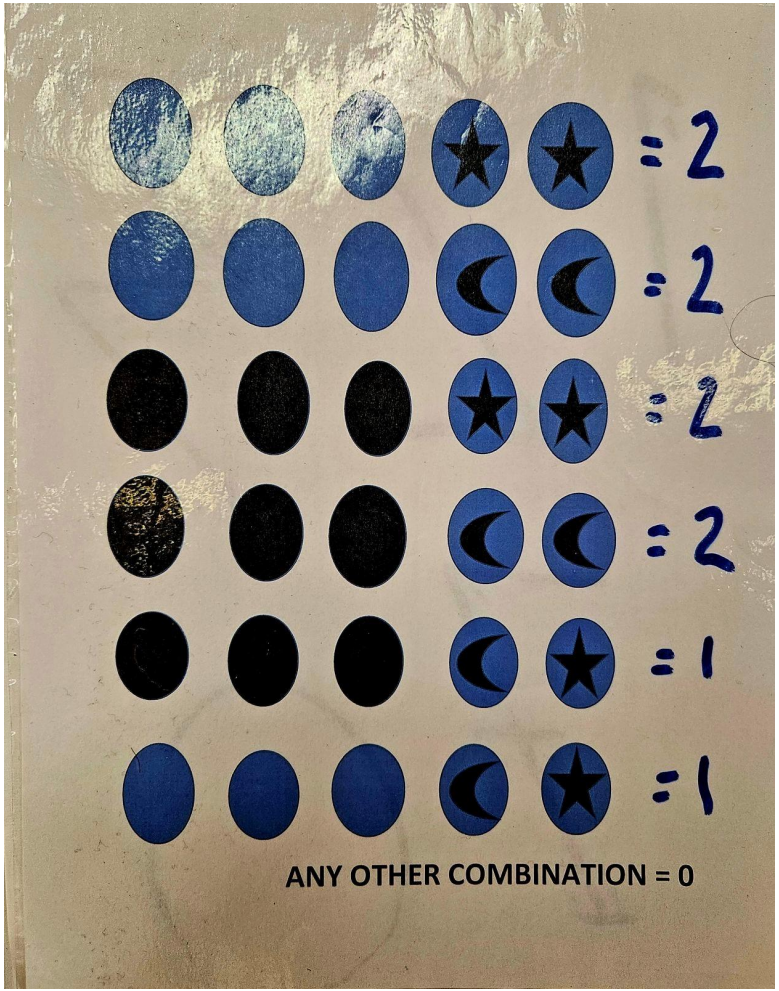
CONNECTING TRADITIONAL WAYS OF TEACHING AND MATHEMATICS



PROFESSIONAL
LEARNING



CONNECTING TRADITIONAL WAYS OF TEACHING AND MATHEMATICS

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DICE GAME

Chart Paper Discussions:

- What types of math did you engage in as a learner when you were playing the game? How do hands-on materials change the learning?
- What connections do you see to your curriculum? How could this be assessment?
- Where did we see the Indigenous Ways of Knowing in the structure of this activity?



INDIGENOUS WAYS OF KNOWING AND TEACHING & LEARNING IN MATHEMATICS

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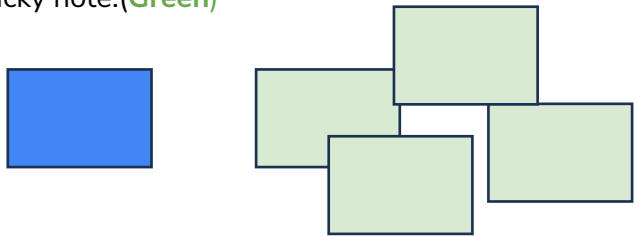
MAKING CONNECTIONS BETWEEN PEDAGOGIES AND WORLD VIEWS

Individual Reflection:

- Would you add any other sticky notes to your list of ways students really get engaged and learn well in your math class? (Blue)
- Now, what did you notice about the Indigenous ways of doing and knowing mathematics that you just engaged in? Write 2-3 ideas down, one idea per sticky note.(Green)





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CONNECTING TRADITIONAL WAYS OF TEACHING AND MATHEMATICS



VENN DIAGRAM SORT

WEAVING TOGETHER OUR WAYS OF KNOWING

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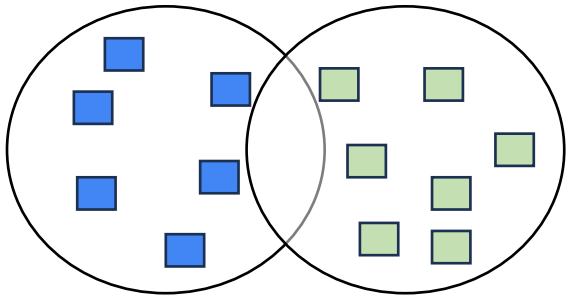
- Would you add any other sticky notes to your list of Indigenous ways of doing and knowing mathematics? Add them now - one idea per sticky note. (green)
- Each person places their sticky notes on each side of the venn.



VENN DIAGRAM SORT

WEAVING TOGETHER OUR WAYS OF KNOWING

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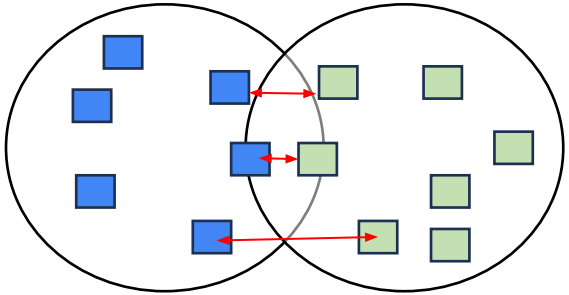
- As a group discuss if there are any notes you could move closer together in the centre or draw a line between, for connections you see.



- Consider your wonder or learning goal for attending today's session. Share your thoughts now to an elbow partner.



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CLOSING: FINAL REFLECTIONS