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Math & Culture:

Small Number

Counts to 100



Have you been to a powwow?







cache-ak0.pinimg.com/originals/92/3d/ec/923dece4b3d8baba262f54ddacab2a49.jpg

Line of Symmetry



Another name for reflection symmetry. One half is the reflection of the other half.

The "Line of Symmetry" (shown here in white) is the imaginary line where you could fold the image and have both halves match exactly.

Challenge:

Using the provided graph paper, design a man's breast plate or the pattern on a women's shawl. It must have 2 lines of symmetry and one reflection with 2 elements.

Resources:

mathcatcher.irmacs.sfu.ca - Small Number videos

aboriginalperspectives.uregina.ca - symmetry lesson
and much more

opi.mt.gov - percent lesson using beading and many
more

Image Sequence

Cindy McGarroch & Diane Barclay

Learning Intentions...

- I can describe images to my partner
- I can use my senses to make images in my mind
- I can find a common theme among multiple images
- I can be a powerful speaker
- I can be a respectful listener
- I can create a ...

Determine A/B Partners

- Song "Should I stay or should I go now"
- Decide who will be the Partner A (stayer) and who will be Partner B (goer) {we will change partners within our groups of four}
- "My partner _____ and I decided that _____ would be the stayer (A) because ... and I would be the goer (B) because..."

Image Sequence

- Image 1
- Image 2
- Image 3
- Image 4
- Common Theme → Book → Final Task

Image Sequence... Image 1

1. Partner A back to the screen
2. Partner B describes the image
3. Partner A does not see the picture
4. Partner A retells the description
5. Then image is shown to Partner A
6. Partner A gives feedback to goer



Image 2... Partner B changes partners

1. Partner A (stay where you are) back to the screen
2. (Moves to new partner) Partner B describes the image
3. Partner A does not see the picture **but can ask questions**
4. Partner A retells the description
5. Then image is shown to Partner A
6. Partner A gives feedback to goer



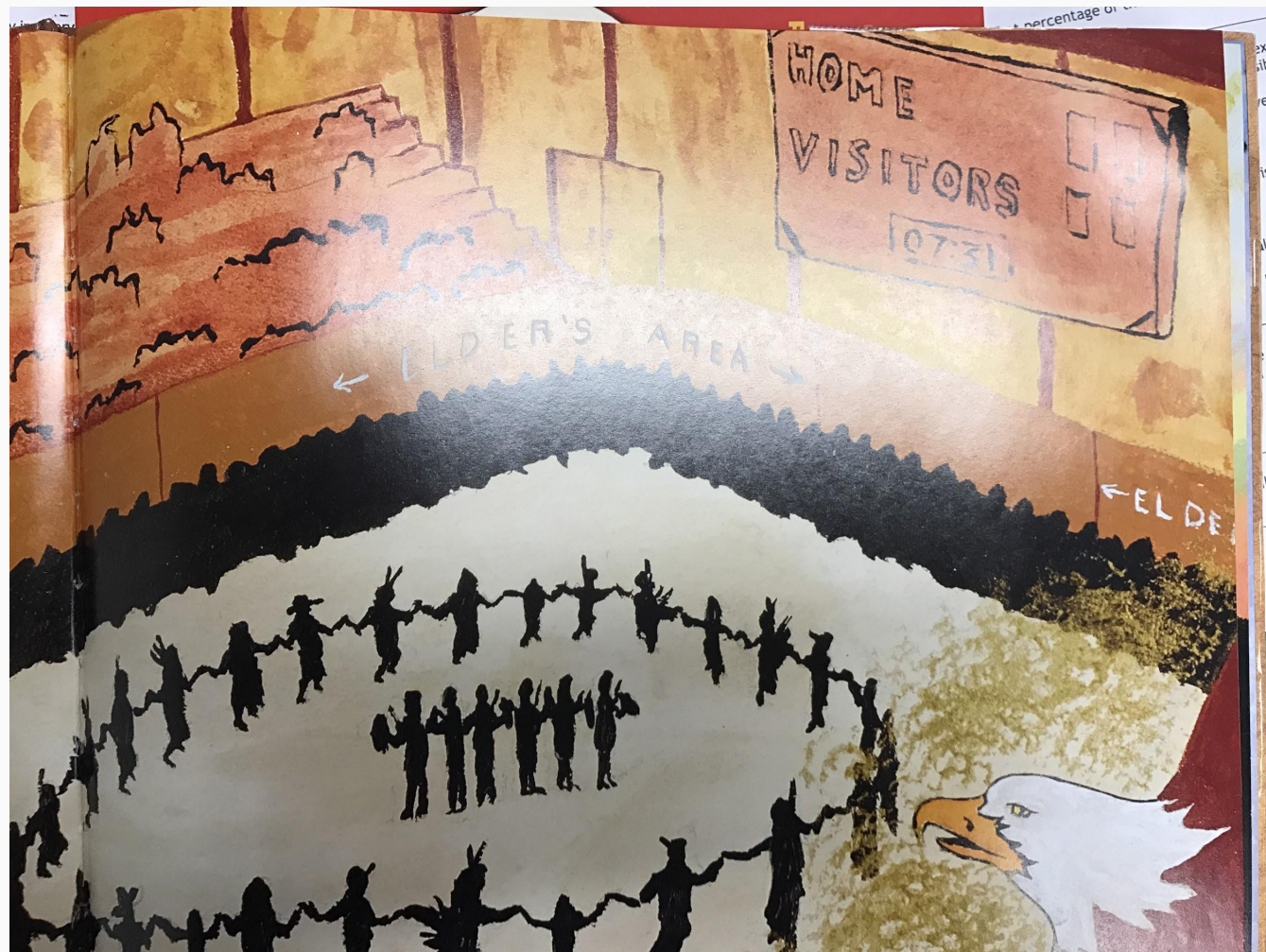
Image 3... switch roles (Partner A now describes and Partner B has back to the screen)

1. Partner B back to the screen
2. Partner A describes the image
3. Partner B does not see the picture but can ask questions and prompts goer (**coaching card**)
4. Stop! Feedback given in middle
5. Partner A adds details
6. Partner B retells the description
7. Then image is shown to Partner B
8. Partner B gives feedback to Partner A



Image 4... Partner A changes partners

1. Partner B back to the screen
2. Partner A describes the image
3. Partner B does not see the picture but can ask questions and prompts goer
4. Stop! Feedback given in middle, **and makes connections**
5. Partner A adds details
6. Partner B retells the description
7. Then image is shown to Partner B
8. Partner B gives feedback to Partner A

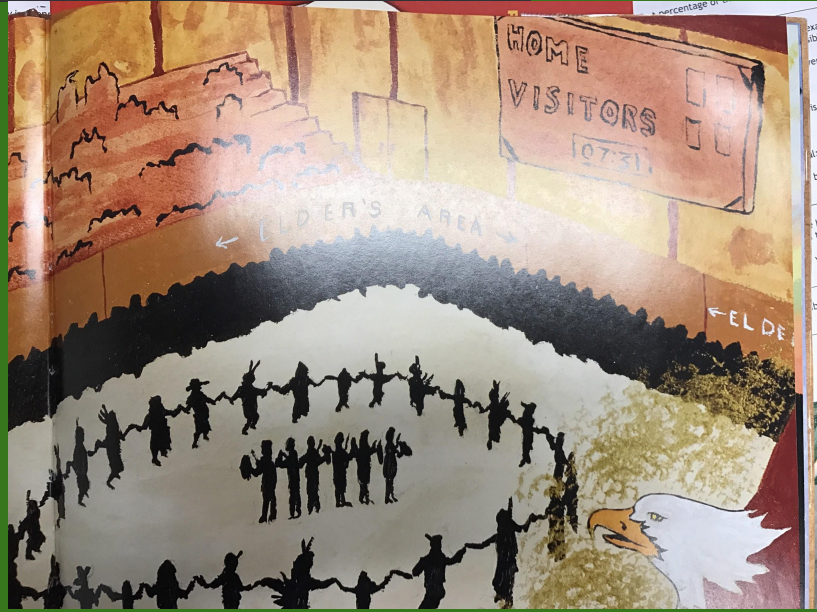


Big Ideas Across the Images

- This is where you establish the theme
- What are possibilities of big ideas?
- Similarities and Differences?
- Brainstorm in small groups
- Share out with justifications

.....because clause.....sentence
frame

- Now that we have an idea of what we're going to learn about, we can talk about the "Final Task"



Literacy & Culture

Partner Picture Talk

- Partner A - back to the screen
- Partner B - describe the picture
- Signal - Partner A - retell description
- feedback



- Partner B - back to the screen
- Partner A - describe the picture
- Signal - Partner B - retell description
- feedback



“What words
would you use to
describe the child
in the before
image and the
child in the after
image



Mystery Picture Blackout Poetry



3. Respect wisdom. It belongs to you. It belongs to the people.
Respect people that listen intently.
You speak freely.
support ideas of others if they are true and good.
The clash of ideas brings
for the spark of truth.
- 4.
- 5.
6. The hurt of one is the hurt of all.
7. Receive all with a loving heart.
8. All are like different coloured flowers of
one meadow. All are beautiful.

Ralph Dill, Western Development Museum Collection
According to the book, *The Face Pullers: Photographing Native Canadians 1871 – 1939*, this photo was taken in by Ralph Dill, Saskatoon's first photographer, about 1905

mysterious, disturbing

questions

man

standing

Why

remnants of

the city

The Story Keeper

The

sat

saddest

around

thought

with

more subtle

Truth

Accessing lessons...

Literacy Blog

Curriculum Blog

Collaborative Planning...



Collaboration:

- Carousel Activity → Integrating Ab Ed Content in all areas of the curriculum
 - A/B Partners
 - Brainstorming
- Sharing to whole group → I can add pictures to our shared folder :)

Resource Browse & Collaborative Planning

- Shared Folder (invite attendees to create lessons using Google docs → creating a header with name, topic, etc)
- DIGMORE
- Ab Ed Resources
- *Lesson Plan Template*

Collaboration Time... Planning together....

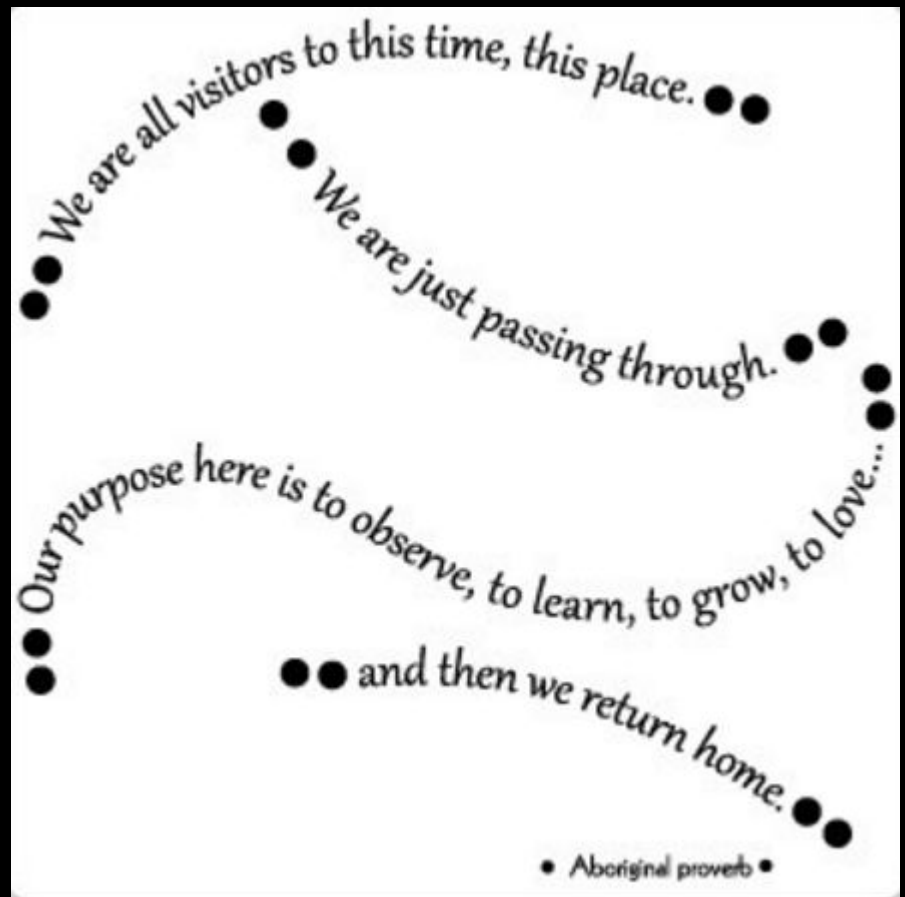


Literacy, Math, Art & Culture

Criteria:

- **Curricular Competencies (Grade 5)**
 - Interpret and communicate ideas using symbols and elements to express meaning through art
 - Express feelings, ideas, and experiences through art
- **Choose a quote (Literacy)**
- **Incorporate math**
 - Two lines of symmetry
 - One line of reflection

Find a quote to add to
the meaning of your art.
Combine to make an
impact...





•• We are all visitors to this time, this place. ••
•• We are just passing through. ••
•• Our purpose here is to observe, to learn, to grow, to love... ••
•• and then we return home. ••

“Every day
do something
that will inch you
closer
to a better tomorrow.”



Thanks for
joining us!!

- SMART... A New Vision for BC Learners Handout
- Student Work Samples
- Before, During, After Activities
- “Pictures” of your favourite Stories
- Small groups/partners plan
- Share Ideas

Accessing Prior Knowledge

- What do you know from your life, other texts, things happening in the world?

- Think of a Time 1 • 2 • 3
- Clustering/Word Association
- Choice Points
- Five Alone • Five Together
- Anticipation Guide
- Growing Images
- Remind TS, TW, TT
- Remind & Question
- Talk About

Prediction/Hypothesis

- Given the clues, what do you think will happen and why?

- **Sort, Predict & Question** with Images and Print
- Select, Check & Predict
- Partner Picture Talk
- Weaving with Text
- Creating from Clues
- Object/Picture Inquiry

During Reading

- using a thinking tool to help you understand the text

Chunk 1

A Sampling of SmartThinking Tools ... Families of Practice

Imagery and Inference Family	What's Important and the Big Idea Family	Questioning Family
<ul style="list-style-type: none">• Partner Picture Talk with Coaching Cards• 4-Quadrants• Thinking Like a Photographer• Capturing the Essence• Reading Like a ...• IQ Image Question• I'm Picturing & Mining for Gold• Projecting an Image	<ul style="list-style-type: none">• What's Important and Why?• Thinking Yes/No• Six Step Summary• Key Ideas, Connections and Questions• Clustering from Text• Collaborative Summary• G.O.S.S.I.P.• Talk About• Mining for Gold• Active Reading (✓+?!)• Five Alone • Five Together	<ul style="list-style-type: none">• IQ Image Question• Reciprocal Questioning• Key Ideas, Connections & Questions• Remind & Question• Sort, Predict & Question with Images and Print• Reading Like an Expert• Object/Picture Inquiry

After Reading

- transforming understandings

Demonstration of Understanding

- Writing as an Insider to Show not Tell
- See • Feel • Think
- Six-Step Summary
- Establishing Meaning
- Collaborative Summary
- Concept Mapping/Woolly Thinking

SmartThinking Tools ... Family of Practice

Imagery and Inference Family	What's Important Big Idea Family	Questioning Family
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