Time and the Métis Sash

Subject: Mathematics	Creator: Alison Kimbley
Strand: Shape and Space	Grade: 4
Content (topic)	
Exploring time representation	
Outcomes	Indicators
SS 4.1: Demonstrate an understanding	SS 4.1a: State the number of hours in
of time by:	a day.
 Reading and recording time 	
using digital and analog clocks	SS 4.1b: Express the time orally and
(including 24 hour clocks)	numerically shown on a 12-hour analog
Reading and recording calendar	clock.
dates in a variety of formats.	SC 4 4 at Francisco time a smaller as
	SS 4.1c: Express time orally as "minutes to" or "minutes after" the
	hour.
Mathematical Processes	
Communication	
Connections	
Visualization	
Lesson Preparation	
Equipment/materials:	
 Sashes that have been woven by students or pieces of string 	
Take the classroom clock off of the wall or a classroom set of mini-clocks	
Presentation	
Development	
• Explain to the students that traditionally there were many ways in which	
Aboriginal people measured and recorded time. For example, many	
predictable phenomenon can be used to record the passage of time as	
the nature of time tended to be more philosophical rather than	
scientific. Tell the students that long before watches and classroom clocks, Aboriginal people were able to keep track of the passage of time	
based on the sun and moon. The cycles of the moon from full moon to	
three-quarter moon to half moon to one-quarter moon to new moon and	
back to full moon takes 28 days. As 28 * 13 = 364 and it takes 365 days	
for the Earth to go around the sun, a 13-Moon calendar is a natural way	
to count a yearly cycle.	
Explain to students that traditionally there were many different	
purposes of the Métis sash. For example: The fringe on the end of the	
sash was often used as a sewing kit, hold important items by tying the	
items to the fringe, as a wash cloth and towel when the Métis were on	
the buffalo hunt, and even as a saddle blanket.	
• When the men were on the buffalo hunt, they often became engrossed	
in the hunt and days often overlapped into each other. At times, these	

men would become unable to distinguish amounts of time. Sashes were used as a means of keeping tack of time by tying a knot in the fringe at the end of each day.

- Have students take out their finger woven sashes or long pieces of wool, which they will be using to represent time.
- As students read the classroom clock to the nearest five minutes, explain to students that they need to think of creative ways to symbolize the time of the clock to the nearest five minutes. This can be done by tying knots in the fringes of their sash similar to what the men did when on the buffalo hunt.
- Ask the students to use the fringes of the sash to represent the time to the nearest five minutes and then take turns having those students explain their methods of symbolizing using the sash. For example, if the time were 2:12pm, students would represent the time of 2:10, as that is the closest five minutes. However, if it were 1:14, the closest five minutes would be 1:15.
- Encourage students to be creative in finding ways to symbolize time through the sash.
- If students are having trouble, show them an example of how to use the sash to represent minutes. For example, if the clock is set to 8:05, separate eight strands of wool from the sash and tie one knot in those fringes having one knot if one knot is decided to be equal to five minutes.