

Some Example Lessons



Tipi Unit

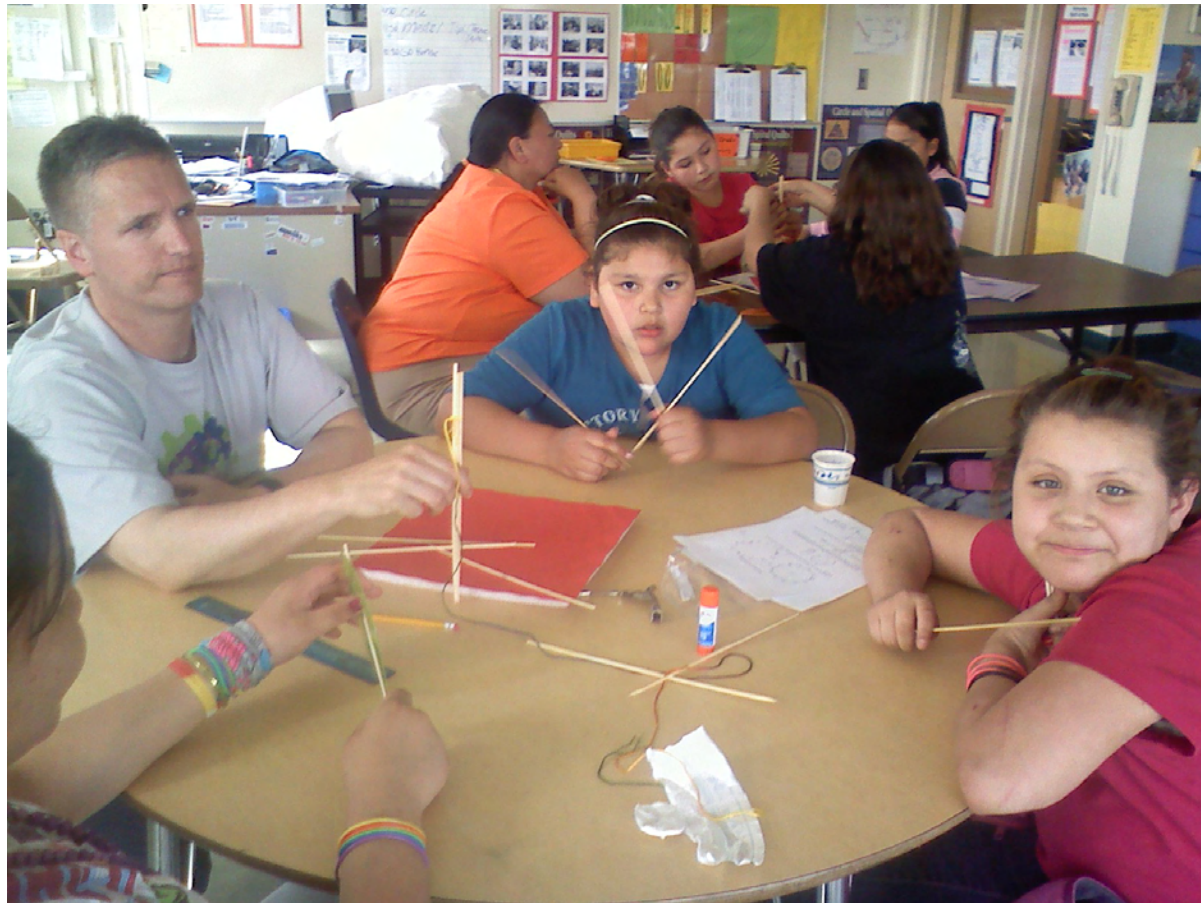
- Lesson 1: Construction Experiment
- Lesson 2: Indigenous Home Design
- Lesson 3: Little Tipi
- Lesson 4: Big Tipi

(For sake of time at the end of the school year we did lessons 3 & 4)

Tipi Lesson

- Used to study:
 - Circles and relations to degrees
 - Students were asked to use a compass to designate equal degree placement of tipi poles
 - Area and Volume of 3-dimensional Objects
 - Began lesson with introduction/review of area and volume
 - Traditional significance of poles and their placement
 - Cultural Significance
 - Specific Tribal usage

Mini Tipi Construction



Mini Tipi Construction

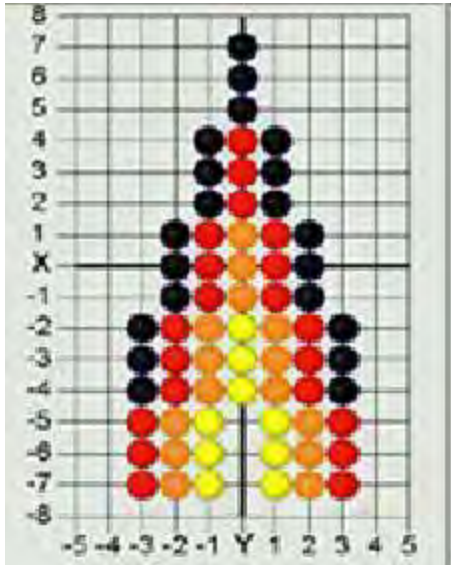


Tipi Lesson





Virtual Bead Loom & Cartesian Coordinates



All photos in this section taken
from Ron Eglash'
Ethnomathematics site:
From "Virtual Bead Loom"
[http://csdt.rpi.edu/na/loom/
index.html](http://csdt.rpi.edu/na/loom/index.html)

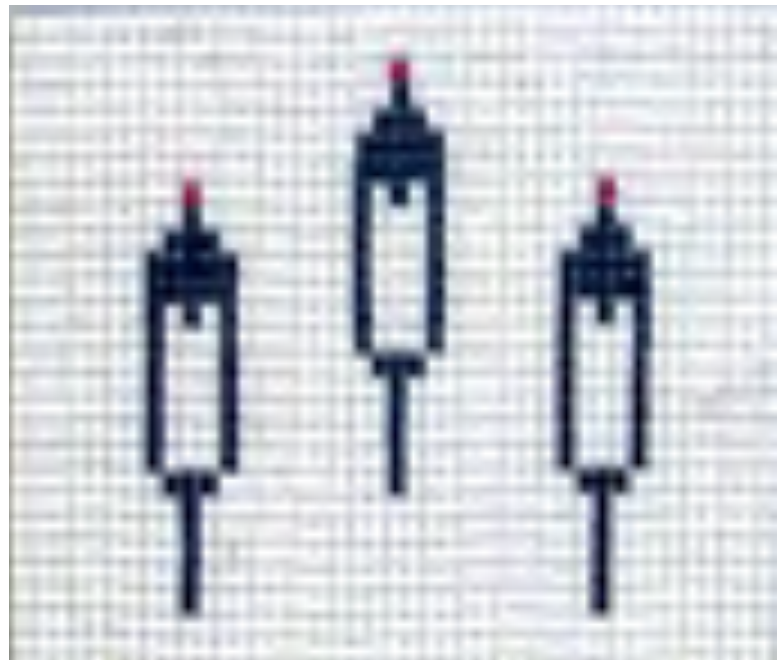
Virtual Bead Loom & Cartesian Coordinates



Virtual Bead Loom & Cartesian Coordinates

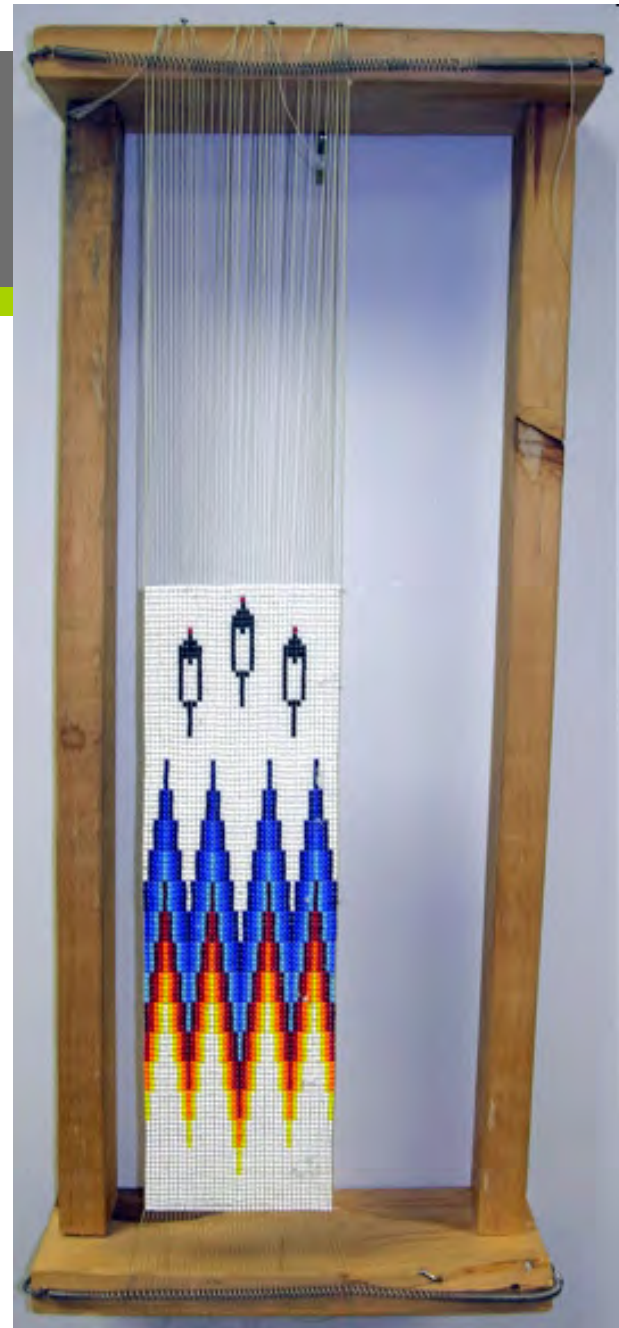
- Math vocabulary
 - Symmetry, axis, rotation, reflection, translation, coordinate system, cartesian coordinates, equations, algebraic representation, quadrant, perpendicular, ordered pair,

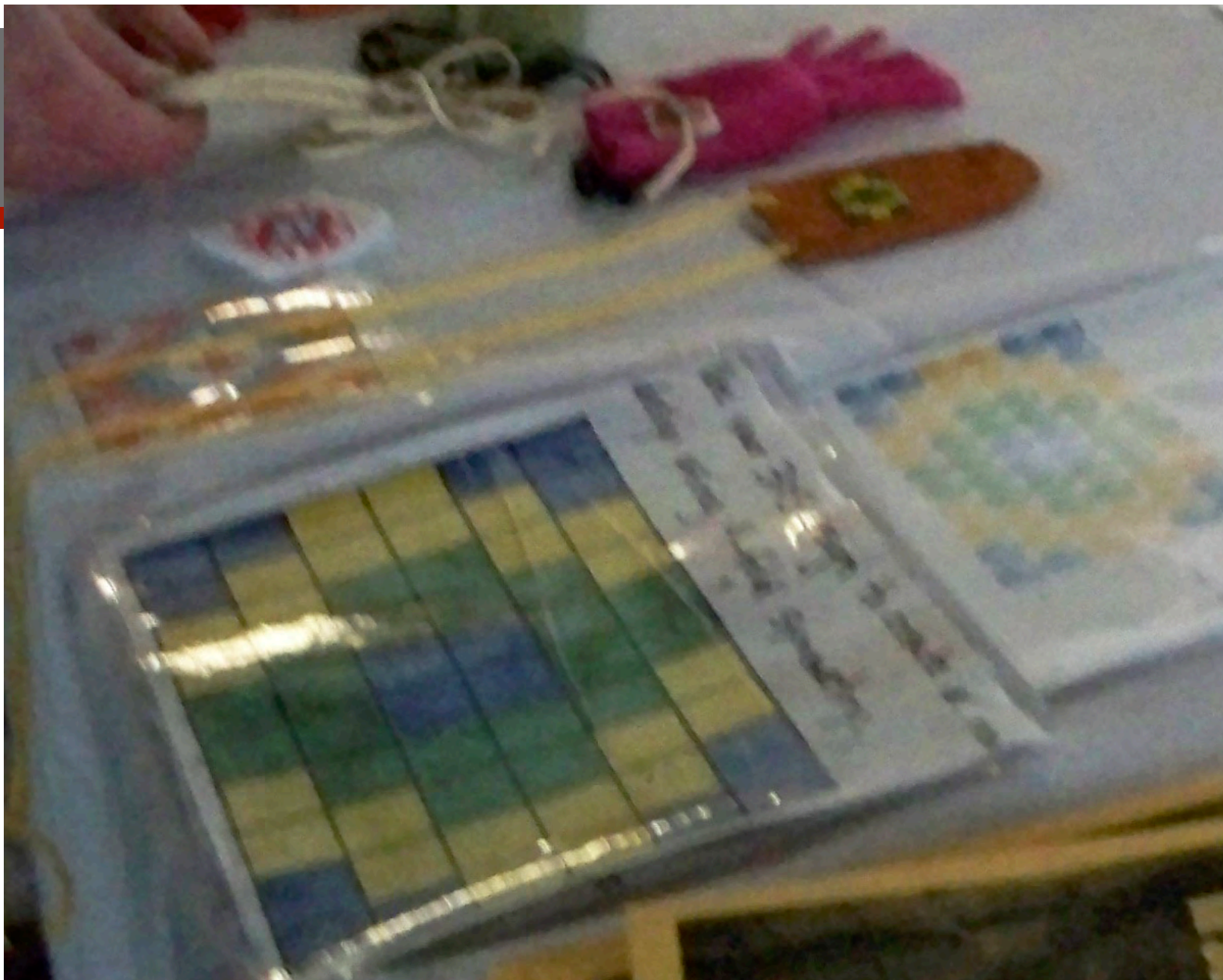
Virtual Bead Loom & Cartesian Coordinates



Each BEAD is a representation of an ordered pair

Virtual Bead Loom & Cartesian Coordinates





Snow Snakes



Snow Snakes

- Students learned about the history of snow snakes
- Students learned about different forces:
 - Normal force
 - Static and Dynamic Friction
- Students created their own snakes and tested them out on a track





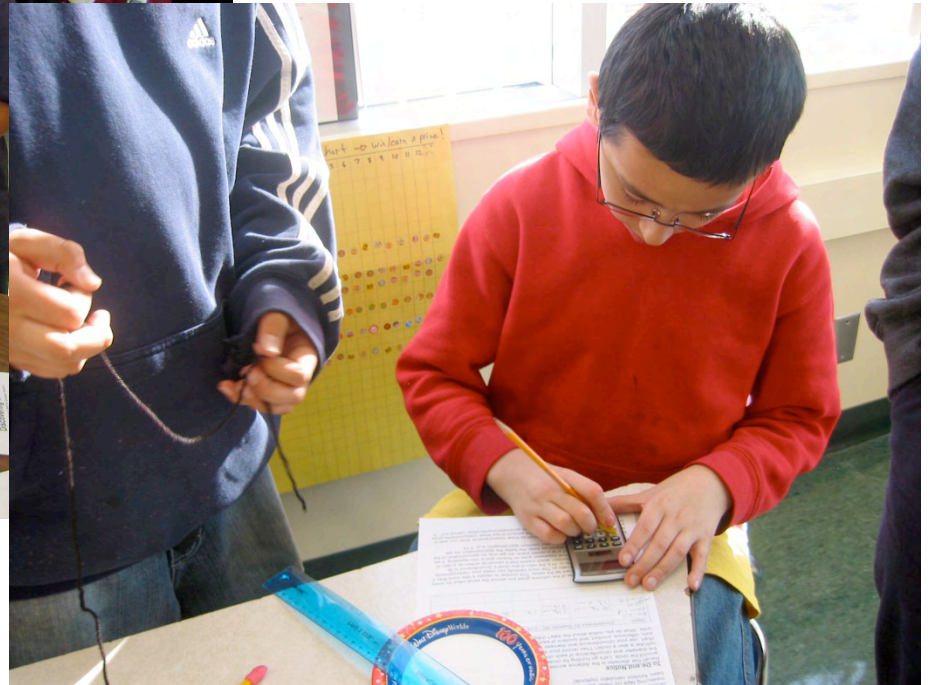


PI Day Celebration

- For the past three years, the AIMP has celebrated PI day.
- What is PI day?
- What activities took place?



PI Discovery



PI Discovery



- PI Discovery Lesson
- Apple & Cherry PI
- First Million Digits of PI
- PI Memorization contest
- Circles in Indigenous Cultures
- PI FIVES

