

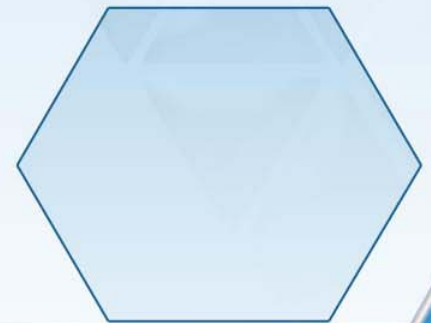
# **Building Bridges: 21<sup>st</sup> Century Skills**

**Walter McKenzie  
Building Global Communities  
Kamehameha Schools  
June 1 – 3, 2005**



# *Wonder Moments*

Those moments of clarity wherein understanding is realized and learning takes place; remembered as much for the experience as the understanding itself.....



# *Wonder Moments*

Mrs. Strelch was my 5th grade teacher. During our studies of the California Gold Rush, she would bring equipment that was used to pan for gold. We would go outside in the playground and actually pan for gold (little rocks that she painted gold).

During the week we would earn gold for assignments completed. Everyone worked so hard to earn gold. It was the most fun time I have ever had at school. We wrote reports, colored maps, panned for gold -- the better you did throughout the lessons, the more gold you had to spend on goodies at the end of the unit. It was spectacular!! I will never forget it.

Kristi McCreedy  
Bakersfield, California



# *Wonder Moments*

When I was in 11th grade, in World History Class, I had to do a report on Queen Isabella and King Ferdinand. Along with our 10 page report we were required to submit a project. At the time, I thought that this was the hardest assignment I ever had. I had nothing for a while, then just a few days before everything was due, I came up with it. I would make puppets, and then perform for the class.

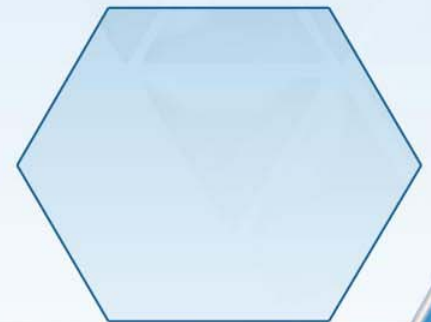
I worked on those puppets for hours after school and weekends. It might not seem too profound to anyone else, but I had to dig deep within and find a part of myself. I found a way I liked to teach.

Danielle Simard  
Nashua, New Hampshire



# *Wonder Moments*

What have been your  
wonder moments?



# *Wonder Moments*

How can we design  
wonder moments  
for our learners?

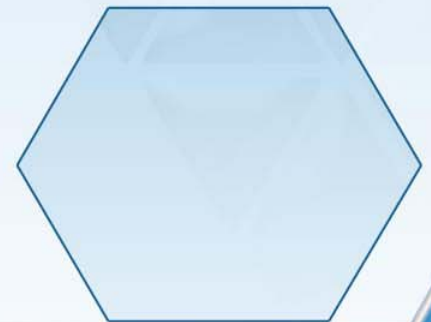


# *Levels of Technology Integration*

Chris Moersch

Level 0

Non-Use –  
the lack of digital technologies



# *Levels of Technology Integration*

Chris Moersch

Level 0

Non-Use –

Traditional technology

Technology is not necessary to successfully implement lessons

Lower levels of Blooms Taxonomy

Verbal and Logical paths to learning emphasized

Typically one - no more than any two - paths to learning addressed





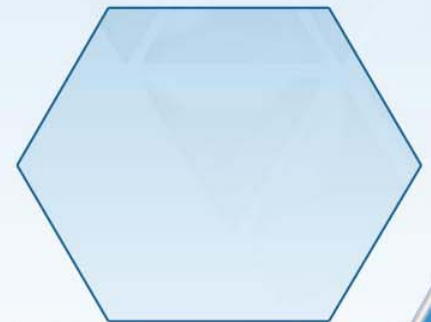
# *Levels of Technology Integration*

Chris Moersch

Level 1

Awareness –

technology-centered level in which the intended instruction is actually controlled by the technology.



# *Levels of Technology Integration*

Chris Moersch

Level 1

Awareness –

Technology-centered lessons

Focuses on technology skills and literacy

Lower levels of Bloom's Taxonomy

Verbal and Logical paths to learning emphasized

Typically one - no more than any two - paths to learning addressed



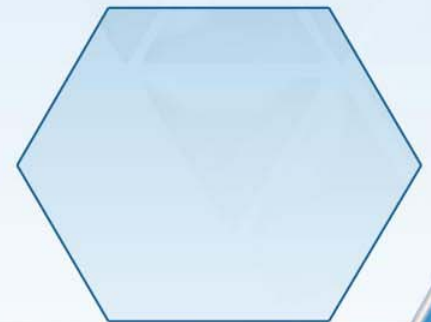
# *Levels of Technology Integration*

Chris Moersch

Level 2

Exploration –

teacher-centered, teacher-directed level in which technology is used to master content at the lower levels of Bloom's Taxonomy.



# *Levels of Technology Integration*

Chris Moersch

Level 2

Exploration –

Teacher-centered lessons

Technology used to extend or enrich  
of learning that has taken place

Cookie-cutter approach to technology

Lower levels of Bloom's Taxonomy

Up to three paths to learning  
addressed



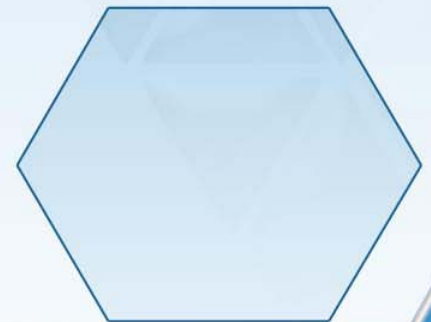
# *Levels of Technology Integration*

Chris Moersch

Level 3

Infusion –

second teacher-centered level of integration, in which content software and Internet resources are utilized to modify lessons which were taught using traditional media in the past.



# *Levels of Technology Integration*

Chris Moersch

Level 3

Infusion –

Teacher-centered lessons

Makes use of digital productivity tools

Little variation in the ways technology is used for instruction

Mid levels of Bloom's Taxonomy

Up to three paths to learning addressed



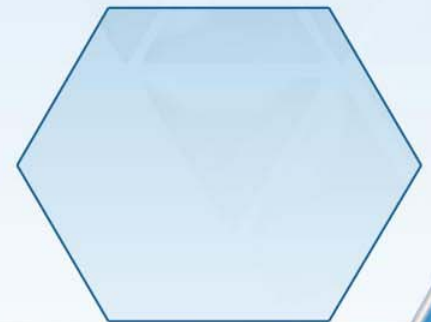
# *Levels of Technology Integration*

Chris Moersch

Level 4

Integration –

student-centered level in which students engage in higher order thinking activities through inquiry, problem solving and product making in response to a specific task.



# *Levels of Technology Integration*

Chris Moersch

Level 4

Integration –

Student-centered lessons

Sophisticated productivity tools

Inquiry, problem solving and product making in response to a specific task

Higher levels of Bloom's Taxonomy

Three to five paths to learning addressed



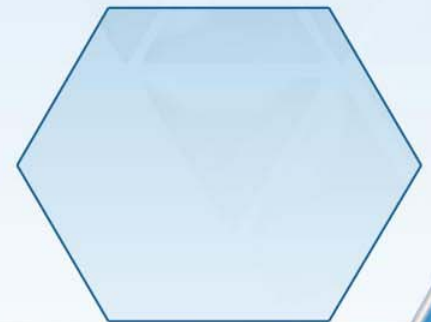


# *Levels of Technology Integration*

Chris Moersch

Levels 5 & 6

Expansion and Refinement - students select technologies to investigate topics, create original products, communicate knowledge, and demonstrate mastery



# *Levels of Technology Integration*

Chris Moersch

Levels 5 & 6

Expansion and Refinement –

Constructivist methodology

Authentic problem solving tasks based  
in real world experiences

Students have access to all kinds of  
technology

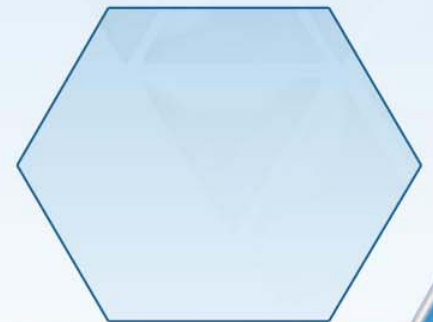
Higher levels of Bloom's Taxonomy

All nine paths to learning addressed



# *Building Bridges*

- Gardner
- Jacobs
- Wiggins & McTighe
- Taylor



# *Building Bridges*



# *Standards*

Destinations to which your unit will map:

NCTM

<http://standards.nctm.org/document/chapter3/index.htm>

NCTE

<http://www.ncte.org/about/over/standards/110846.htm>

NSA

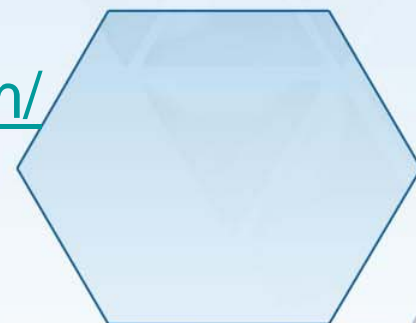
<http://www.nap.edu/readingroom/books/nse/html/3.html>

NCSS

<http://www.socialstudies.org/standards/strands/>

By State

<http://www.statestandards.com/>



# Theme

Big picture concept that ties unit together:

- Cycles
- Frontiers
- Networks
- Change
- Decisions
- Goals
- Construction
- Patterns
- Heroes
- Choices
- Solutions
- Standards
- Communities
- Tools
- Boundaries
- Conflict
- Predictions
- Journeys
- Senses
- Communication



# Big Idea

Banner-worthy slogan that sets the unit tone:

- Heroes are defined by their circumstances.
- Change is constant.
- Asking the question requires curiosity; answering the question requires courage.
- On a journey, you must know where you've been and where you're going.
- The best solution saves you time and resources.
- One choice is not as good as another; your criteria determine what is best.
- Building understanding is the key to building community.

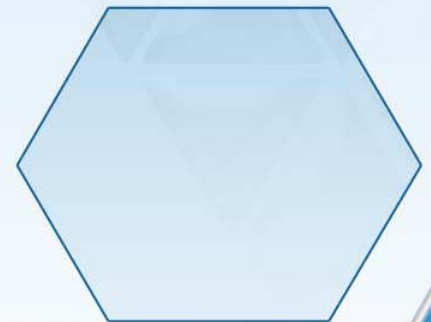
See <http://www.bartleby.com/100/>



# *Need to Know Questions*

Questions you will revisit again and again throughout the unit:

- What are the frontiers in our lives?
- Are there frontiers left to explore here on Earth?
- What character traits does it take to explore a frontier?
- Why are we afraid of the unknown?
- What are the rewards of conquering our fears and exploring the unknown?

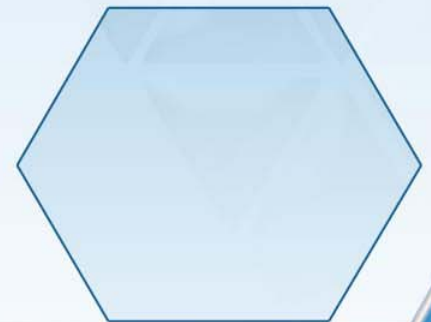




# *The Mission*

The “hook”:

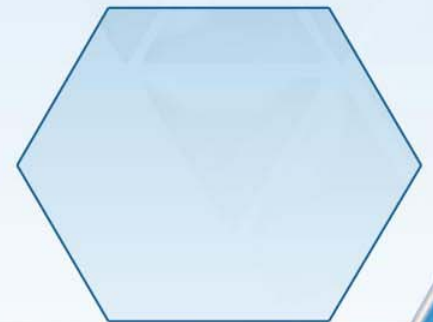
- solving a problem
- creating a work product which addresses a specific need
- stimulates the imagination and curiosity
- rich, real world in nature
- open-ended task that students will not be able to easily address in a short span of time
- a purpose for learning
- a climate for learning
- a context for learning



# *Mapping to the Mind*

Mapping to Intelligences should be:

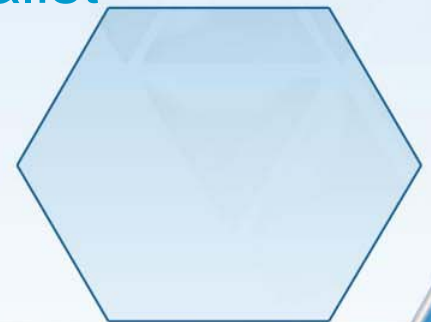
- Task-oriented
- Process-based
- Natural (not forced)
- Promoting higher levels of Bloom's Taxonomy
- Adding to the big idea



# *Mapping to the Mind*

Learning through:

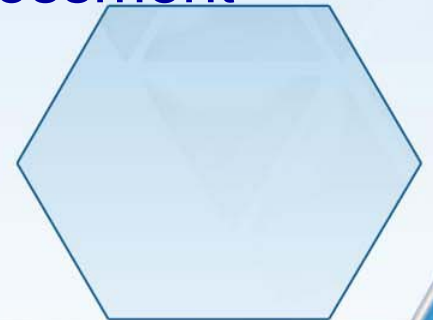
- Language – Verbal
- Problem Solving – Logical
- Seeing and Imagining – Visual
- Patterns – Musical
- Interaction with the Environment – Kinesthetic
- Interaction with Others – Interpersonal
- Feelings, Values and Attitudes – Intrapersonal
- Categories and Hierarchies – Naturalist
- Larger Understandings – Existential



# *Culminating Event*

A logical extension of the mission:

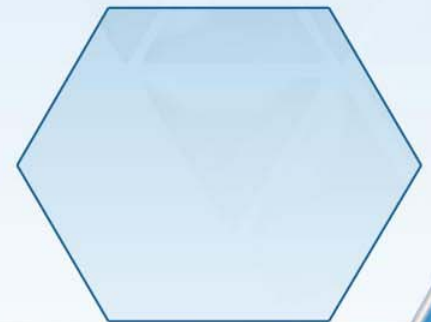
- allows learners to share responses to mission
- a celebration of learning
- showcase student understanding
- an interactive social event
- transform your classroom into another world as it takes on the characteristics of your unit of study
- optimal opportunity for authentic assessment



# *Assessment*

Authentic assessment for authentic tasks:

- task-based
- process-oriented
- intelligence-centered
- authentic
- portfolio
- rubric
- checklist



# Resources

## Books

<http://surfaquarium.com/IT/CONTENT/literature.htm>

<http://www.carolhurst.com/index.html>

<http://www.acs.ucalgary.ca/~dkbrown/index.html>

<http://www.scils.rutgers.edu/%7Ekvander/ChildrenLit/>

[http://www.amazon.com/exec/obidos/tg/browse/-/1000/ref=b\\_tn\\_bh\\_br/102-4063336-2733740](http://www.amazon.com/exec/obidos/tg/browse/-/1000/ref=b_tn_bh_br/102-4063336-2733740)

## Songs

<http://www.rocklibrary.com/Education/>

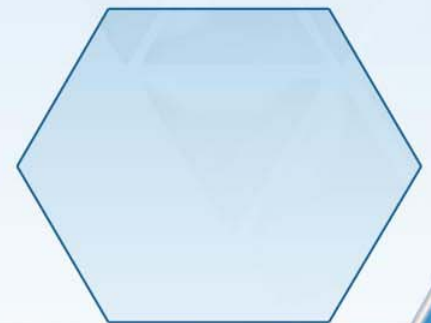
<http://www.lyrics.com/>

<http://lyrics.astraweb.com/>

## Web Resources

<http://surfaquarium.com>

<http://yahooligans.yahoo.com/>



# Links

Sample MI Units <http://www.surfaquarium.com/MI/units/>

Walter's MI Pages <http://www.surfaquarium.com/MI/>

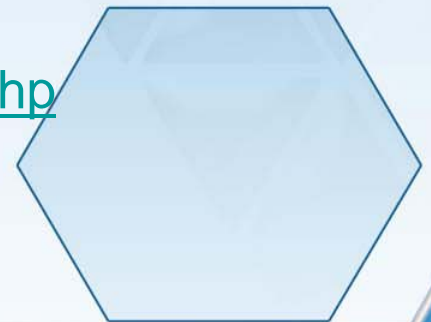
Standards-based Lessons for Tech-Savvy Students  
<http://surfaquarium.com/MI/book2.htm>

Multiple Intelligences and Instructional Technology  
<http://surfaquarium.com/MI/book1.htm>

Teacher Rubric Makers  
[http://www.teach-nology.com/web\\_tools/rubrics/](http://www.teach-nology.com/web_tools/rubrics/)

Rubistar <http://rubistar.4teachers.org/index.php>

Famous Quotes  
<http://www.bartleby.com/100/>



# Work with Walter Online!

Join the Building Bridges CoP at the Surfaquarium!

<http://surfaquarium.com/CoP/>



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**Offerings**

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