

Title of Session: Arts and Literacy - Math

Moderator: BJ Berquist

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Room: ArtsSites Group

BjB: We usually start the Tapped In discussions with introductions. Can you please tell us where you are located and what you teach or hope to teach?

BjB: I'm the leader of this discussion and am an art teacher in Pennsylvania

SusanR: Ontario, Canada...taught Special Education and Art today

DavidWe: I'm David Weksler, garlic enthusiast and Help Desk volunteer. I help teacher learn more about educational technology. I'm in New Jersey, near New York City

KarenGst8: Hello everyone! I live and teach in Traverse City, MI

LindaU: I'm Linda Ullah. I teach at Foothill College in Los Altos CA (Near San Francisco).. I do teacher staff development there.

DebraKW: I'm in Milwaukee WI. I teach high school art

EmilyW: I am Emily and I am web designer. I am on Tapped In helpdesk.

DanielleMM: I'm Danielle. a 4th grade teacher in the NYC schools

BjB: welcome to today's discussion on the Arts and Math!

BarbGst10: Hi, I teach fourth grade in Alaska, I'm finishing up my degree with Walden, my homework was to check out this site, so here I am...trying to figure out what I'm doing.

BjB: What I will try to do during this discussion is share some websites with you that will help you integrate the arts across the curriculum...and the math program in particular

DanielleMM: yes please

BjB: some of the sites will be elementary and some secondary...

BjB: if you don't see anything that tickles your fancy, give me a holler

BjB . o O (we're pretty informal...if you have any questions as we go along, please shout out)

DanielleMM: now just to be clear....

BjB listens to Danielle

DanielleMM: instead of me rushing to copy everything down that we talk about, sites, etc

DanielleMM: the transcripts are emailed, correct?

DavidWe: You'll get a transcript by email, Danielle

BjB smiles...that is correct, Danielle

BjB . o O (all members get the scripts automatically)

DanielleMM: I wouldn't want to misspell the websites is all

DanielleMM: good to know

BjB understands...the urls will be included

DanielleMM: sorry, please continue

BjB: since time seems to have a way of overwhelming us all...

BjB: we're going to start with a site on Calendars and Time

BjB: <http://webexhibits.org/calendars/>

BjB: another way to use the information in this site is to build your own collection of art work that includes some indication of time. You can do this at www.artsconnected.com

BjB . o O (your students can also do this and annotate the collection)

BjB: There is an artconnected tutorial on April 19, btw

LindaU: There are great social studies connections, too on the Calendars through Time site

BjB agrees with Linda

BjB: I love the name of this next site almost as much as I like the site: Tempus Fugit (time flies)

DanielleMM: good to know

BjB: <http://www.nelson-atkins.org/tempusfugit/>

LindaU: I know you are connecting Art and Math, but I keep seeing the social studies connections with these sites..

BjB: and more, Linda. Teaching topics on the site:

BjB: Using the objects in World Times and Conservation Time, these multidisciplinary activities offer classroom teachers and curious students enriching opportunities for further investigations of time.

BjB: Develop a new unit on time, integrate a discussion of time into an existing curriculum, or create a special time project. These educational guides will serve as springboards for explorations of time in art, science, history, and culture.

DanielleMM: I like that a lot of the questions engage the students in higher-order thinking

BjB: any other comments on tempus fugit?

DanielleMM: not now

BjB: anyone familiar with the term EthnoMath?

EmilyW: no

LindaU: nope

DanielleMM: no

BjB: <http://www.ethnomath.org/index.asp>

BarbGst10: no

DebraKW: no

BjB: again, Linda, it's connecting Math and Social Studies and Art

LindaU: I started to laugh.. David wants me to stop seeing the SS connections, but they just keep popping up.

LindaU: It's great-- I love thinking thematically.. and there are so many thematic curriculum connections here.

BjB: I like the cross curricular thematic topics too

BjB: they make the world make more sense

BarbGst10: I was pleased to find the Yupik culture represented!

DanielleMM: these sites seem kinda wordy for my 4th graders

LindaU: but no Bengali

DanielleMM: I teach in an inclusion classroom...my students would be quickly overwhelmed by all this information

BjB: most sites can be simplified and just a couple ideas gleaned from them

DanielleMM: I think they're great resources though

DebraKW: so colorful and visually stimulating

DanielleMM: I was just checking out Japanese Math

DanielleMM: they give photos and pictures of Japanese characters

BjB: for the little ones it may be enough to know that there is math in every culture

LindaU: Try copying and pasting the text in to MS Word, then using Autosummarize under Tools in the menu bar. You can simplify any site for younger students that way.

DanielleMM: it might be, but I like to display examples

DanielleMM: most of them are visual learners

BjB: I have a couple other ethnomath sites...let's see if they help, Danielle

SusanVa joined the room.

DanielleMM: wow maybe I'm not as computer savvy as I thought I was, Linda

DanielleMM: I never knew that

BjB: this is an ethnomath webhunt

BjB: <http://home.mindspring.com/~mjg2/ethalt.html>

LewisA: I have art online journals and websites (Includes BJ's site which is linked) on Web Based Resources at <http://ejw.i8.com> There are also many other subjects on the site well.

LindaU: Fantastic resources. I can't wait to share them with our teachers.

BjB: thanks, Lewis

DanielleMM: love it, much like a webquest

DanielleMM: keeps the students engaged

BjB: Mancala is interesting...a game

DavidWe nods

BjB: one more ethnomath site - Melting Pot Math

BjB: <http://sln.fi.edu/school/math3/>

LindaU: Wow, Lewis! This is great. Thank you.

BjB: good lesson on spreadsheets for you Linda
<http://sln.fi.edu/school/math3/monsoons.html>

DanielleMM: I wish I saw this site sooner....great activities w/ Mexico and Monarch Butterfly

LindaU: and a part of the world I'm familiar with, too.

LewisA: In fact on Web Based Resources I have a new page called Kids Stuff: Educational Resources with sites under several subject areas, including Art, Math and Language Arts. If you have something to add, I welcome that.

BjB nods to Linda

BjB: thanks, Lewis

BjB: any questions so far?

BjB: ready for some music sites?

BjB: The first one says that Music is math with feeling!

DebraKW: I was in the Caribbean in melting pot math, how fascinating

BjB: <http://www.musicnotes.net/mycr.html>

SusanR: nice site, Lewis

LindaU: I've been advocating for elementary music programs for years. So many have been cut. This is a great resource.

DanielleMM: exactly, if only my students had music class

BjB . o O (many don't have art either)

DavidWe encourages Bj to show the Mind Institute site

BjB: do you have the url handy, David?

DavidWe: Here's a place to start:

DavidWe: <http://www.mindinstitute.net/cont/edu/stmath.php>

LindaU: BJ's right.. art and music have both been cut so that test scores will go up...

LewisA: Here is a great searching tip. It works with Yahoo and Google. You can force it to search only titles on web pages. Enter intitle:"__ __ __" It ignores keywords and the text on pages

SusanR: Nice support for the general classroom teacher who has to teach all subjects including Music

DanielleMM: but are they going up?

DavidWe smiles

LindaU: Again great info ...thanks for the site.

DavidWe: Apparently this Math+Music curriculum in K-6 in Orange County has had rather dramatic test score increases from what I've been told

DanielleMM: I've seen no evidence thus far to justify cutting the arts from our students

LindaU doesn't really want to get into the test score debate... not now..

DanielleMM: at least in NY anyway

BjB: a few more music and math sites <http://www.math.niu.edu/~rusin/papers/uses-math/music/>

BjB . o O (that one is definitely hs)

DanielleMM: test scores show nothing...that's all I want to add for now....sorry Linda

LindaU: It is interesting that many musicians have high mathematical logical intelligence (Gardner's Multiple Intelligence Inventories) and visa versa.

DavidWe nods

BjB: David, this one is for you MathForum Math and Music:
<http://mathforum.org/library/topics/music/>

DavidWe: Well, of course

LindaU agrees with Danielle--and actually has STRONG opinions.. but will bite her tongue on the subject for now.

DavidWe smiles

LewisA: I have got to go, but I look forward to receiving the transscript. Bye for now. Thanks for your great work Bj

DanielleMM: we'll save it for a rainy day

LewisA left the room (signed off).

LindaU loves Math Forum stuff.

BjB: last music site is a thinkquest site ThinkQuest Math and Music
<http://library.thinkquest.org/4116/Music/music.htm>

DavidWe: Do you all know about Zometool - building tool, like Lego or Konnexx, but mathematically very precise?

LindaU: Fantastic.. Those Thinkquest kids, really do great stuff.

BjB: no, David.

LindaU has never heard of Zometool.. and waits for David to explain.

DavidWe: The company web page, I'll post, but take a look at this:

DavidWe: <http://www.cs.sunysb.edu/~george/zomeday/>

LindaU: Ah, I think I've seen these at a couple of conferences...

DavidWe: Zometool is based on some very sophisticated geometry, but it is basically a model-building tool

DavidWe nods

LindaU: They are VERY cool.

DavidWe: <http://www.zometool.com> is the company web site

DanielleMM: unreal....for students to build?

DavidWe: But a guy that I've met, a sculptor...yes, Danielle...

DavidWe: Does some very cool things as well as Zometool

DavidWe: <http://www.georgehart.com/sculpture/sculpture.html>

DavidWe: He's in Long Island, actually, near Stony Brook, I think

SusanR: sodaplay

DavidWe: Yes!

SusanR: reminds me of SodaPlay, David

DavidWe loves SodaPlay

DanielleMM: and it only took them 4 hours...remarkable

DavidWe: Here's the educator's page from the Zometool folks - 1st graders through college students have used it:

DavidWe: <http://www.zometool.com/educators.html>

LindaU: I hope we get a lot of math teachers in our institute this summer... I'll have lot's of neat sites for them to get their creative juices flowing for multimedia math projects.. thank you so much..

DavidWe smiles

DavidWe: Bj has all these connections for Social Studies, too, Linda

DavidWe winks

LindaU thinks Spring Break is good because it gives me time to get reconnected with TI

BjB: speaking of which...math and dance:

<http://educ.queensu.ca/connectme/sharedresources/units/Grade6/MathofDance.html>

LindaU: Thank you.. this is great

BjB: math based on the picture book Pigs in a Corner
<http://www.amyaxelrod.com/pitc.html>

DavidWe: <http://www.mathdance.org/>

DavidWe . o O (Californians near you, Linda)

SusanR: do take a look at soda constructor <http://www.sodaplay.com/> if you have a chance

BjB: thanks David and Sue

LindaU: Santa Cruz.. hmmm.

DavidWe: They are great, Linda. Saw them do this presentation, "Two Guys Dancing About Math" in a small gym in Berkeley

DavidWe: Math teachers AND dancers

LindaU: Fantastic... I love the connections..

DanielleMM: mathdance=phonics, math, kinesthetics=one happy 4th gr teacher

LindaU: Maybe we can make a strong case for getting the arts back into the curriculum...

DavidWe: Someone needs to

BjB nods solemnly

DanielleMM: definitely

BjB . o O (one of the reasons I do these sessions)

LindaU: Hmmm.. I may have rekindled an old cause..

DavidWe smiles

DanielleMM: I'll jump on the bandwagon, Linda

SusanR: absolutely...some schools have artists in residence here in Ontario

DebraKW: some kids can only be reached through art

DavidWe: Danielle, as a 4th grade teacher has this been helpful? Is there stuff you can use tomorrow?

BjB: Here's an interactive site on mandalas
http://www.girlsgotech.org/world_around_us.html

LindaU has some great real stories about this.

BjB: and another mandala site is <http://www.earthmandalas.com/>

DavidWe wonders if he should bring up the Escher story

LindaU: Lots for me to think about...

DanielleMM: I teach inclusion, most would be over their heads

LindaU is looking for some slight changes in her focus...

DanielleMM: but I've found a few that they could use

BjB . o O (patterns is a wonderful way to show math...quilts, etc.)

DavidWe nods

DanielleMM: mathdance and thinkquest are def options

LindaU wants to know David's Escher story.

DanielleMM: along with the webhunts

SusanR: students love working with patterns..

BjB: did you see Pigs in the Corner, Danielle?

DavidWe went to school in England (3rd grade) in 1967-68

DanielleMM: not yet...

DavidWe 's family traveled to Europe a number of times

BjB: <http://www.amyaxelrod.com/pitc.html>

DavidWe: We were in Holland and my father called him on the phone and we were invited over for a visit

LindaU thinks out loud--the arts global projects, peace projects, cross-cultural understanding.. children helping children via the arts.. hmmm..

BjB listens to David's story

DavidWe 's Dad bought a print for a small sum which is quite a bit more valuable now

SusanR: Arts across the curriculum, Linda

DavidWe: He was a very nice old man with lots of cool things in his studio

DavidWe: Escher's family were engineers - he wasn't good at math as a child in school

BjB: one last site on symmetry and we've run out of time

BjB: <http://www.adrianbruce.com/Symmetry/index.html>

DavidWe: Not until he saw the Alhambra in Spain did he get really excited about patterns, symmetry, dividing the plane, etc.

DavidWe: He invented some new geometries, then

DanielleMM: love it....Amy Axelrod also wrote Pigs in the Market...another great book

DebraKW: thanks, this has been so inspiring

EmilyW: I like that site

DanielleMM: or is it Pigs go to Market

BjB: Thanks, everyone, for your input during the discussion

LindaU is still listening to David's story.

BjB: any particular topic you want for next month?

DanielleMM: thank you...I can't wait to pass this info along to my fellow classmates in grad school

BjB: great, Danielle

SusanR: I have founds Adrian's resources quite practical for a variety of grades and curriculum areas

DavidWe believes he might have come to the end of the story, but will consider questions

DanielleMM: along with our computer teachers at our school

LindaU has a lot to think about.. Thank you.

DavidWe smiles

BjB: thanks for your post to the festival list, Linda...good points

LindaU is impressed.. I imagine his house was amazing.

DavidWe: his studio had lots of stuff...tools, etc.

DavidWe wishes he had been a bit older, but...

LindaU: Is this when you lived in the UK?

DavidWe: My father had read an article that was in Scientific American in 1964, I believe

DavidWe: Yes, during that school year

DavidWe: Europe is a lot closer so we traveled there a number of times

DanielleMM: good night Bj...and thanks again

DavidWe: We were on the border of Ukraine and Czechoslovakia the day the Russians closed the country - that was exciting

DavidWe hugs Bj

LindaU: Good night BJ... It's late on the East Coast

LindaU: I have to go cook dinner.

DanielleMM: 5am comes too quickly for me

DavidWe nods

DavidWe: Take care, folks

DanielleMM: night night

DavidWe: Good luck with your students, Danielle

SusanR: Escher..a fascinating, David

