

Title of Session: Arts and Literacy - The Art of Science

Moderator: BJ Berquist

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Room: ArtsSites Group

BjB: we usually start the Tapped In discussions with introductions

BjB: please tell me where you are located and what you teach or hope to teach and what you hope to get from this discussion

BjB . o O (I'll be leading the discussion and am an art teacher in Pennsylvania)

PMartinGst5: I am an educational consultant from Texas, I am participating as a part of a doctoral class, but would love to learn new ideas to take to my trainings

JohannaM: pre-service teacher, University of Houston 4-8 science, integration of technology

AndreaM: From Flagstaff Az. I hope to teach art

DustinH: I am from Flagstaff Arizona, and seeking my masters in Education with a cert in secondary. I am an Ceramic artist and anticipate teaching high school ceramics. I am looking for new ideas.

DavidWe: I'm David Weksler. I'm a TappedIn HelpDesk volunteer and I lead a math education and technology discussion in TappedIn. I'm in Bucks County, PA, north of Philadelphia

BjB: Hi, Mary. We're just doing introductions

MaryLM: Hi all I am just browsing to see what this is all about.

BjB waves hi to Jeff...just doing intros

JeffC nods

MaryLM: I work as a TL for Prairie Lands Writing Project

BjB: 'what this is all about' is a discussion on arts and literacy in the science classroom, Mary

BjB: I led a discussion last Thursday on The Science of Art and had some trouble communicating my definition of the topic...

MaryLM: I taught science for 20 yr. Retired now

MaryLM: Had kids do biopoems for plants.

BjB: don't want to repeat that ...so let's make sure we're all on the same page about what using the arts in science has to do with literacy or with science?

BjB: welcome Susan and Maryjane

MaryjaneH: Hi

SusanVa: Thanks - nice to be here

BjB: Mary, can you tell us more about biopoems for plants?

MaryjaneH: like, what is a "biopoem?"

MaryLM: I did a little creative adjustment to the people bio poem format. Students researched 20 plants and reported using a powerpoint slide show. Then for fun I had them do a biopoem of their favorite plant.

BjB: sounds like it was fun!

MaryLM: Bio poem is a poem about you. If anyone wants the plant format email me at lucki13@grm.net

BjB: thanks, Mary.

MaryjaneH: okay, so bio as in biographical rather than biological?!

MaryLM: Yes, Also had the students add a picture of their plant. Printed them

MaryjaneH: (I guess it's been a long Monday, sorry)

BjB: does anyone else have an example of how you can add the arts to a science project?

DustinH: When I was young, I had trouble learning the classifications for animals (kingdom, Phylum, class, order, ETC) my dad taught me a song about our cat that had all of the labels, and examples of what the labels mean. To this day I can still remember the song and all of the classifications.

BjB chuckles....how cool!

MaryjaneH: since we are on the subject of plants, I had students "create" models of plant parts> we used green construction paper for stamens

MaryLM: I don't know the song, but I know another way of remembering.

MaryjaneH: clay for pistil and ovary

MaryjaneH: yellow, blue, or lilac constr paper for petals

MaryjaneH: fishing line for stamens and anthers

MaryLM: I like that idea Maryanne

SusanVa: You can look at the science of art (colour, light, optical illusions....)

MaryjaneH: oops...I mean the green paper was the sepals, not stamens

MaryjaneH: we glued beads on the end of the fishing line for anthers

SusanVa: A study of flowers could also look at Georgia O'Keefe's work

BjB: we did the science of art last week, Susan...the folder of links is under featured items above this chat window

BjB: nice connection, Susan

BjB: here's another idea

http://www.eduplace.com/monthlytheme/july/parks_activities.html

BjB . o O (you could make a flower amusement park)

BjB: or what about a microbe zoo? <http://commtechlab.msu.edu/sites/dlc-me/zoo/>

SusanVa: Sorry - colouring to me is not art - why not create the mural without colouring in someone else's things

BjB . o O (hold down the ctrl key on your keyboard when you click on the url)

JohannaM: Thanks looks like something I could use for my future class

MaryjaneH: I like to have students do dioramas for ecology...we take a photo of our environment in fall and make a diorama, then take one in winter, after everything is frozen and snowy, then one in spring, when the birds come back, and one at the very end of school, when the grass has turned green again...

DavidWe wonders what Bj has up her sleeves

DavidWe: Or video, Maryjane...time lapse

MaryjaneH: that's an idea...I haven't tried time lapse video...hmmm

DavidWe: Mostly it's editing OUT a lot of stuff

BjB: . o O (or making a digital story to blend the seasons together)

BjB: what about doing something 'through the eyes of'?

BjB: <http://epic.centersti.com/bee/gallery.html>

BjB: . o O (through the eyes of a bee)

MaryjaneH: like, through the eyes of an otter or of a raven?

DavidWe: . o O (my two favorite animals!)

BjB: ahhh...raven also gives me another idea, MaryJane...

MaryjaneH: otter is my favorite too...they are so playful

BjB: <http://earthasart.gsfc.nasa.gov/index.htm>

DavidWe has a wonderful web site with photographs of ANWR

MaryjaneH: I've actually seen three otters this year...two of them were huge and were together

MaryjaneH: ...there is kind of another funny story that goes with it though...

MaryjaneH: My golden retriever had run off in the woods with my boyfriend's black lab and the otters were so far away, I thought they were the dogs and I told him "I'm 99% sure I saw the dogs"

MaryjaneH: and we walked all the way over there and all we found were otter tracks and otter slides!

MaryjaneH: So now he jokes "99% sure huhh?"

BjB smiles.

BjB sends Maryjane for new glasses

MaryjaneH smiles

MaryjaneH: (and when we got back, the dogs were sitting on the front steps waiting for us!)

BjB: we've discussed showing the ground in various science topics...plants, trees, etc....

BjB: what about looking up? <http://www.bbc.co.uk/paintingtheweather/themes/>

BjB: or observing paintings to determine what weather is taking place?

SusanVa: Another nice art activity is to paint with the pigments of nature (leaves, bark, berries, flower petals)

BjB: if you're into clouds, try this Cloud of the Month site
http://www.cloudappreciationsociety.org/a/cloud-month/cloud_month_august.html

BjB: good idea, Susan...or create dyes from natural objects

BjB: let's go beyond the clouds to the Cool Cosmos
http://coolcosmos.ipac.caltech.edu/image_galleries/ir_portraits.html

DustinH: It seems that the artist is portraying the mood of the weather

BjB: NASA has some exciting images of the cosmos also
<http://www.hq.nasa.gov/copernica/>

DavidWe . o O (NASA has the BEST toys)

BjB smiles. Yes, they do know how to have fun, David

BjB: if we head the other direction to microscopic, you can do some interesting things with <http://education.denniskunkel.com/>

BjB: any comments, suggestions or ideas about the sites so far?

BjB . o O (or questions)

AndreaM: Wow, these are all new ways of looking at things in our environment . these websties are great bc I am not too familiar with science I would learn a lot from them

DustinH: Really neat, I know an artist that paints cells, cancer, and other microscopic things

BjB: interesting, Dustin.

BjB: much of science is learning how to observe

SusanVa: Much of art is learning how to observe!

BjB: so it's fun to look microscopically at things and then zoom out and see what the world looks like from a different perspective

JohannaM: real great stuff for future class

BjB agrees with Susan

DavidWe: Medical students in New York City are learning about the "Art of Observation" by looking at paintings at the Frick Collection

BjB: I'm just going to throw this next site in to bring in some design...

MaryjaneH: I am an Earth Science teacher and much of it really is observing...unfortunately, my own artistic skills are mostly good for making the kids laugh! but they sure can shine when I put their work next to mine!

BjB: http://www.sciencefriday.com/pages/2002/Feb/hour2_020102.html

BjB . o O (and this is an audio file so it's a different way of learning)

DustinH: That is great, I love when different disciplines can be related to one another, it gives everything more meaning

SusanVa: Do you know the powers of 10 site?
<http://micro.magnet.fsu.edu/primer/java/scienceopticsu/powersof10/>

BjB nods to Susan. Thanks

MaryjaneH: I really like how the science Friday starts off with some inquiry-type questions

BjB: This next site I'm going to show you is going to take some time to explore....

BjB: <http://www.learner.org/>

BjB: start with The Art of Teaching the Arts

BjB: you need to sign up (free) to be able to view the videos, but they're terrific!

AndreaM: I have watched many of the video on learner.org. They are so helpful and interesting. They teach you how to effectively integrate different disciplines

BjB: one of the videos shows how a dance teacher and a science teacher collaborate in making connections between human anatomy and frog anatomy

JohannaM: We are about to study the microscope does any one have good ideas

BjB: what do you do when you study the microscope, Johanna?

JohannaM: Well I'm doing my student teaching and we are about to get to that section. The teacher I'm assign is just going to do it the traditional way. I will like to change it for my students

BjB: anyone have any suggestions?

MaryjaneH: what grade level are you teaching Johanna?

JohannaM: 6th grade

MaryjaneH: if the kids are young...it will take at least one whole class just to get them familiar with operating the microscope...so I would suggest keeping it very simple

JohannaM: o.k.

MaryjaneH: if possible, it would be neat to try focusing on the things the kids will be looking at ahead of time and if you could get pictures...show them what the item looks at with different magnifications (4x, 10x, etc.)

MaryjaneH: show them how to use the "coarse focus and fine focus"

MaryjaneH: sometimes they even have trouble just finding the specimen on the slide...show them how to "wiggle the slide around to "trap" the image

JohannaM: Thanks for the suggestions

MaryjaneH: I remember student teaching 7th graders...my heart goes out to you Johanna!

BjB chuckles

JohannaM: They are good kids

BjB: we have time for one more site...I always like to leave 'em smiling...you'll love this one...

BjB: Insultingly Stupid Movie Physics

BjB: <http://intuitor.com/moviephysics/>

JeffC: I love the Internet... I go and cook dinner... come back... cool link.

BjB . o O (that was my master plan, Jeff)

MaryjaneH: It reminds me of that show, "Mythbusters"...one of the few shows I actually enjoy watching

JeffC: ok ok... how about some comments on the stupid physics site?

BjB: So...a question for you all...did I meet my goal of showing you examples of using art to teach science?

JeffC: well... did you show them fractals in nature?

MaryjaneH: yes, in unexpected ways..not what I thought it would be

JohannaM: Yes, I'm just a bit confused of the last site. How can I apply that

BjB: the last site gives you a laugh, Johanna...makes you a better teacher

MaryjaneH: you could maybe use it to generate ideas for students to do their own "mythbuster" investigation

BjB: or look more closely at movies the kids enjoy

BjB: how was science used in the movies and is it true

MaryjaneH: actually..I just thought that one up off the cuff but would be relevant, interdisciplinary, good use of technology, real world, and maybe even fun

JohannaM: Good way to explore science

MaryjaneH: true inquiry...students have to find out if the "myth" is true or not

BjB: I have several fractal sites and many more science sites on my backflip page...just didn't want to overwhelm by hurling a zillion urls

BjB: www.backflip.com/members/BjBerquist

DustinH: BjB I enjoyed the sights, Except I still did not get my password It is also good for students to become aware of truth and taught how to find it. The true education is the skills necessary to find truth

JohannaM: no thanks for all the ideas

AndreaM: thanks for all the ideas and the time you put into this it will help a lot

MaryjaneH: thanks for all the links (I will have to investigate most of them later)

DavidWe: Good job, Bj

BjB: thanks, David

SusanVa: Thanks - enjoyed it

BjB: thanks, Susan

JohannaM: Bye everyone, thanks

DavidWe: Ciao, folks

BjB waves goodnight