

Title of Session: ArtsSites-The Science of Art

Moderator: BJ Berquist

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Room: ArtsSites Group

BjB: Let's make this 'official'. Welcome to the ArtsSites discussion...

BjB: The topic tonight is The Science of Art

BjB: we usually start the discussions in Tapped In with introductions...

BjB: I'm an art teacher in Pennsylvania

BjB waits for everyone to please introduce themselves

JoshuaRW: I'm an art ed grad student in Arizona

ChloeH: I am a grad student in secondary ed (art emphasis) at Northern Arizona University in Flagstaff, AZ

AnnaES: I'm a student teacher in Rosenberg Texas

BjB: what do you teach, Anna?

AnnaES: I'm sorry, this was my last week in Kindergarten and next week I start 3rd

BjB: any comments on the topic tonight?

ChloeH: Can you explain the topic in more detail?

DavidWe: I'm a HelpDesk volunteer and someone who helps teachers learn more about technology - I'm in snowy New Jersey, near snowy New York City

ChloeH: Is this about using technology in art?

BjB: The topic, The Science of Art, is going to look at color, light, and other science/art related topics

BjB: technology can be a part of that, Chloe...let me know if I don't cover what you're looking for

RaeR joined the room.

ChloeH: So incorporating science into art by talking scientifically about color, light etc.?

BjB: we're not integrating science into art...that is the topic for the Arts and Literacy discussion on Monday

BjB: we're looking at how light forms color

BjB: how light creates form

BjB: welcome, Rae. Can you please introduce yourself to the group?

RaeR: hello

RaeR: sorry I didn't mean to be lurker

ChloeH: So this is a very specific topic then? We're looking at how to teach this topic to students?

RaeR: I teach at George Mason University and am the Director of the Foundation Program

BjB: Chloe, you can do that if you like....feel free to use the resources I'm going to share in any way you like

RaeR: I am presently teaching and In the arts class

BjB: thanks, Rae.

BjB: let's start with a resource from NPR, since I know that is one of David's favorites

BjB: Where Science Meets Art NPR

BjB: when I show you a url, please hold down the ctrl key on your keyboard as you click

BjB: <http://www.npr.org/templates/story/story.php?storyId=4111499>

JoshuaRW: when you use the word "form" you are referring to the structural outer form of everything?

BjB: yes, Joshua

BjB: . o O (as used in shading, etc. in artwork)

RaeR: I think of form and 2 dimensional and shape as 3

JoshuaRW: so how does light create form?

BjB: I have a resource to share with you later, Joshua

BjB: did everyone get the last site I showed you?

TaborD joined the room.

ChloeH: I skimmed it over

BjB: an example of the science of art is in the Goldsworthy article where he says To do so, he studied optics and physics to create a series of domes that should stand forever without any cement.

BjB: hi, Tabor. Welcome

TaborD: Thanks

TaborD: Sorry I'm late

BjB: the computer reference asked about earlier could apply to the article on Donald Knuth

BjB: np, Tabor. We've just gotten started

JoshuaRW: It's using the discipline of science to integrate into the discipline of art production

BjB nods to Joshua. An artist has to be part scientist

BjB . o O (well, maybe HAS is a bit strong)

ChloeH: I just made the comment about the computer because someone said they worked with computers. I didn't realize that he was just making his introduction

BjB: ahhh...it was relevant to the topic though, Chloe. Thanks

BjB: The Exploratorium has several good resources

BjB: <http://www.exploratorium.edu/>

JoshuaRW: an artist is many things: part scientist, historian, sociologist

VennyS joined the room.

BjB: btw, if you are new to Tapped In, please go to ACTIONS in the top right of your chat window and click on DETACH

BjB bows deeply to Venny

BjB: I agree, Joshua

VennyS bows to Bj

ChangK joined the room.

BjB: welcome, Chang

BjB: many of the topics on the Exploratorium site can be either the art of science or the science of art

ValerieGst12 joined the room.

BjB: welcome, Valerie

BjB: but I think the science of music is what we're talking about during this discussion

ChloeH: This discussion is centered around music?

BjB: comments?

JoshuaRW: so how does this topic relate to the previously announced topic of how light creates form?

BjB: no, Chloe

BjB: that is just one of the sites we'll be looking at, Joshua

ChloeH: I'm a little confused

JoshuaRW: ok

ValerieGst12: Thank you. That is excellent because I was a music major originally.

ValerieGst12: So what is the subject right now.

BjB: Chloe, as Joshua mentioned, art teachers have to be a bit of all disciplines...

JeffC: art and science is the topic... and art takes many forms (as does science)... so... you'll see sites that integrate the two and offer an opportunity to teach across curricula

BjB: the topic we're looking at now is how art teachers have to be scientist

ChloeH: Right, I'm just trying to get a grasp of what we are discussing

BjB: let's look at this thinkquest site

BjB: <http://library.thinkquest.org/3257/>

BjB: that work for you all?

JoshuaRW: yes

ValerieGst12: Got it.

BjB: scroll down on the page to Scientific Principles

BjB: a reminder that all urls will be in your transcript when you log out

JoshuaRW: ok...

BjB: anyone familiar with Brain Opera?

BjB: <http://brainop.media.mit.edu/indexold.html>

ChloeH: So are we looking at this new site now?

BjB: yes, please, Chloe

JoshuaRW: so we're looking at the science of sound

BjB: and the brain

BjB: . o O (or the mind)

JoshuaRW: right

BjB: relates back to the NPR site where the woman saw color when she plays music

JoshuaRW: right, ok

BjB: ready to move on?

JoshuaRW: yes

ChloeH: yep

BjB: the next site is on light and optics

BjB smiles...happy, Joshua?

BjB: [http://ww2010.atmos.uiuc.edu/\(Gh\)/guides/mtr/opt/home.rxml](http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/opt/home.rxml)

ValerieGst12: These sites are wonderful. I whole heartedly agree that science is a huge part of music, not only for the visual pictures we see, but for the science of sound, the relationship of waves to colors and so on.

JoshuaRW: got it

TaborD: I agree too.

BjB: thanks, Valerie

BjB: let's try The Science of Light

BjB: <http://www.learner.org/teacherslab/science/light/>

BjB . o O (I do have some sites that can be used for elementary level, Chloe)

ChloeH: I'm in secondary

BjB: ahhh...sorry

ChloeH: no problem

BjB: has anyone participated in a Tapped In ArtsConnectEd discussion?

ChloeH: No

BjB: The next site is the Artist's Toolkit from ArtsConnectEd

BjB: <http://www.artsconnected.org/toolkit/>

BjB . o O (it's loud)

BjB: ArtsConnectEd is scheduled for March 21...always a good discussion led by Kevan Nitzberg

JoshuaRW: that one's probably something one wouldn't use for secondary then

BjB: the sound isn't that bad

BjB . o O (just gets your attention)

JoshuaRW: yeah sure does

BjB: the ArtsConnectEd site allows you to build your own museum collection of artworks...it's a very cool site.

BjB: ready for some more brain stuff?

BjB: Neuroscience for Kids

BjB: <http://faculty.washington.edu/chudler/neurok.html>

ChloeH: I heard the sound, but the site didn't open

JoshuaRW: seems a bit elementary

BjB: Chloe, make sure it didn't open on another window

BjB nods to Joshua.

BjB: arts educators are certified K-12, right?

JoshuaRW: right! got it

JoshuaRW: this one would be good too then

TaborD: yes

JoshuaRW: are there any specific lesson plans one can use to apply these to?

BjB: Neuroscience for Kids has been around for a long time...it's just a cool site

BjB: If you use your imagination...or we brainstorm as a group, I'll bet we can come up with some ideas, Josh

BjB . o O (listen to music and paint a picture of the colors you hear?)

BjB: what color would the clouds be in a dusty sunset?

BjB . o O (or the sky after rain?)

BjB: want me to zip through the rest of the sites so you'll have them in your transcript and then we can take questions or comments

JoshuaRW: ...yeah painting music, or radio waves, etc

JoshuaRW: sure!

RaeR: yes please that would be great

BjB: artificial anatomy <http://americanhistory.si.edu/anatomy/index.html>

TaborD: Sounds good

BjB: science, art and technology <http://www.artic.edu/aic/students/sciarttech/>

BjB: BUBBLES! <http://www.exploratorium.edu/ronh/bubbles/bubbles.html>

BjB: Springboard from PBS <http://www.pbs.org/kqed/springboard/teachers.html>

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

BjB: another exploratorium site on seeing
<http://www.exploratorium.edu/seeing/index.html>

BjB: fall color <http://www.urbanext.uiuc.edu/fallcolor/about.html>

BjB: van gogh light exhibition http://www.vangoghmuseum.nl/light/index_flash.html

BjB: Lightwalk http://www.exploratorium.edu/light_walk/

BjB: Causes of colors <http://webexhibits.org/causesofcolor/>

BjB: color theory <http://www.hazelwood.k12.mo.us/~grichert/sciweb/color.htm>

BjB: <http://members.cox.net/mrsparker2/intro.htm>

BjB: <http://www.worqx.com/color/index.htm>

BjB: color quiz personality test <http://www.colorquiz.com/>

BjB: color wheel <http://www.taospaint.com/Colorwheel.html>

BjB: color me happy: color, mood, tone
http://edsitement.neh.gov/view_lesson_plan.asp?id=642

BjB: colormaking <http://www.handprint.com/HP/WCL/color3.html>

BjB: how to build a light island
http://www.exploratorium.edu/learning_studio/lightsource/menu.html

BjB: Color Matters <http://www.colormatters.com/entercolormatters.html>

BjB: color symbolism

<http://www.princetonol.com/groups/iad/lessons/middle/color2.htm>

BjB: color in motion <http://www.mariaclaudiacortes.com/>

BjB: pigments through the ages <http://webexhibits.org/pigments/>

BjB: and last, but not least, the mathematics of rainbows

<http://www.geom.uiuc.edu/education/calc-init/rainbow/>

TaborD: These sound really good.

BjB dips her smoking fingers in cool water

ChloeH: Thanks for the websites

DavidWe hands Bj some ice and some chocolates

DavidWe . o O (with brandy inside)

BjB: I'm sorry we were so rushed...this could have been a discussion for several hours!

ChangK: Miss. Bj:

TaborD: I think the links will be very helpful. Thank you

JoshuaRW: I really like the ones on color theory

BjB: The next ArtsSites discussion will be on April 6. The topic will be on Visual Culture

ChangK: thanks you give me a lot of information

ChloeH: I'm logging off. Thanks for the info.

BjB: come back again and let me know how you're using those sites!

JoshuaRW: these are all very valuable, thank you

BjB . o O (or join this group and post to the discussion board)

BjB: thanks for joining me tonight

JoshuaRW: thank you, goodnight

BjB: I'm off to the Teaching Teachers discussion...any last questions?

VennyS claps his hands for a great session.

TaborD: No thank you