

Title of Session: Create a Synergy: Literacy and Science

Moderator: Jan Naher-Snowden

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BJ: Click on the Actions drop down menu in the upper right of your chat window and scroll all the way down to DETACH to make the chat window larger and easier to read.

BJ: URLs in the chat text are hyperlinked. Click on the hyperlink in the chat text to open a new window for the URL.

Jan_NS: I am Jan Naher-Snowden, long time science educator and naturalist, also part-time educ. faculty at the Univ. of Akron, OH. and a Ph.D. candidate.

JenniferP: nice to meet you Jan

Jan_NS: Just so you know from whence I come!

DebaprasaB: glad to meet you Jan

KeikoS: I am KeikoS Event HelpDesk

KeikoS bows

KeikoS . o O (everybody?)

PaulRG: Paul Guardiola from TX. -ed. specialist for special ed -assistive technology

Jan_NS: Quick intros, please (just so I know our context)

JohnLi: John Lindner - third grade teacher/site technology mentor - San Jose, California.

HeribertF: Heribert J. Feige teacher from Germany (Wiesbaden)

DoloreGuest13: Computer Teacher from St. Louis

KimFl: Kim Flack from AZ - ASSET online professional development

LloydA: Lloyd Allen, Math 9-12 (algebra and Calculus), Baltimore County MD

RoseGuest11: I'm Rose, a teacher from St. Louis, MO

PatGuest12: Science teacher for grades 5-8

CherylBu: Cheryl Burnor from Hillsboro, Oregon Sped K-12 as well as general education

MarilynM: I teach preservice early childhood and elem science methods

LouiseP: Dir. of Instructional Technology from Texas

MarkR: Mark Rasmussen technology teacher middle school CA

JacobP: Jacob Pence - unemployed - recent MAT graduate - Forest Grove, Oregon

FredB: Online learning consultant - Tapped in Supporter

CarrieGuest3: Carrie Stewart, Mat student, Concordia

JenniferP: 8th grade MS language arts teacher in Milwaukee, WI

LoniS: Loni Schmid, MAT student at Concordia, plan to teach Business Ed and

Language Arts

PaullGuest21: Hi, I am a MAT student in Portland, OR

ConnieL: MAT student from Concordia--Hello again

LynneW: Prof of Ed Tech, Concordia University College of Ed Portland, OR

RyanGuest4: Me and my colleagues are from Portland OR, MAT students at Concordia University

DebaprasaB: science teacher from California

FrederickZ: 3rd grade sage teacher from milwaukee, wi.

RubenGuest17: student in Portland OR__MAT go guides on the side!
AndyGuest19: Concordia MAT candidate
BrentGuest20: I am a Master in the art of teaching from pdx
Degranguest18: mat student, will be teaching science when I'm finished.
Jan_NS: Ok - quite a diversity of contexts!
BretBi joined the room.
JhromcGuest22: or Jerome, Mat student at Concordia, Portland, Or.
KeikoS: Welcome all!
RobertGuest15: I'm an MAT student (social studies).
RandallC joined the room.
BigTexGuest31: MAT student at Concordia and all around man of action!
SunnyGuest27: MAT student at Concorida
Jan_NS: We are all familiar with No Child Left Behind, I assume
DebaprasaB nods
BretBi nods
SunnyGuest27: yes I am
BrentGuest20: yes.
CarrieGuest3: a bigt
DoloreGuest13: Yes
HeribertF: I not, please define
JacobP a bit
CarrieGuest3: or a bit
FrederickZ: indeed
JhromcGuest22: Nod
CrystaGuest25: sure thing
CherylBu: yep
LouiseP: yes
ConnieL: yes, we learned about it in a class last month
Jan_NS: Science tends to be one of the subject areas that seems to get pushed to the background.
RubenGuest17 nod to nclb
RyanGuest4 nods yes
PatGuest12: yes
PaullGuest21: yeah
RobertGuest15 nod with unhappy face
RandallC nods yes
LoniS: Yes, the district where I live just hired an administrator just to handle the NCLB paperwork!
CherylBu: too bad, science is a good tool to teach reading & math
Jan_NS: FOSS (textbook and curriculum publisher) has a good overview.
Jan_NS: I will give you the URL - please scan and then pop back so we can set our framework.
Jan_NS: <http://lhsfoss.org/sciencelit.html>
CherylBu: looks like a good resource
JenniferP: I'm back...like the graphics
BigTexGuest31: jealous Rubin?

DebaprasaB: looks good!

JohnLi: My district just switched from FOSS kits to one series for K-5 and another for 6-8. I'm trying to remember the publisher. Harcourt Brace, I think.

Jan_NS: please scan the section on "Research"

Jan_NS: we are not really concerned so much about Foss but what they have to say about science and literacy.

MarilynM: I am currently working on a manuscript about a project we do linking, science, literature, and social studies and I am sure the info. on this discussion will be helpful.

Jan_NS: Because that is the context for our efforts.

JacobP: I think literacy should be integrated into all subject areas

ConnieL: looks like a great web site. I'm not a science teacher, but language arts. I love the interdisciplinary approach.

JenniferP: I'm back to discuss

RoseGuest11: FOSS looks good. Lots of science. I'm more interested in the Math part of it.

Jan_NS: I'm sure that we all agree that literacy is more than reading and HAS to be included in all subjects.

Jan_NS: However, with the resources of WWW and internet we have many more options

JenniferP: True

SunnyGuest27: I think literacy is much broader than reading...it's about knowledge and skills and learning

JenniferP: how much would this cost to host something like this at a school

Jan_NS: Jennifer you would need to check the info on this site.

SusanR: Back... I like correlating math science and language arts...meets many of our benchmarks and standards

RoseGuest11: Good idea, Susan, to include math and language arts

JenniferP: I agree as well... I like integrating all subjects together to correlate at some time or another

CherylBu: adding literacy, reading, math & speaking to science opens up more areas to check standards

Jan_NS: OK. now we all think of tradebooks to supplement our science curriculum. This usually happens most frequently in the elem. grades and less in the upper grades

JenniferP: For instance, I have Literacy and Social Studies to mix

JenniferP: for middle school

Jan_NS: You are lucky JenniferP. What an opportunity

Jan_NS: NSTA has an excellent resource list for tradebooks that deal with Science.

MarilynM: We are developing several CD based activities linking science activities and literature.

JacobP: Do you have some more of your favorite resources on the web that you mentioned Jan to link to

GloriaA joined the room.

Jan_NS: And is archived for many years.

BretBi: Do you have the website for NSTA?

MarianneH: Isn't literacy (traditional 3Rs and the new information literacies) a part of all content areas?

Jan_NS: Here comes the link. <http://www.nsta.org/ostbc>

SunnyGuest27: I think it is a component of all areas and can be achieved in all areas....but I think it's deeper than that

JenniferP: I like integrating reading with all subjects.. For example, reading a book correlating with history that you are studying or a science based book such as Fantastic Journey to do alongside of regular material learned

LloydA: sorry. Math here. Is there a formal def for tradebook?

Jan_NS: Yes, I agree. but it seems that with science getting squeezed that it gets overlooked in the integrating.

Jan_NS: Tradebooks are those books not published in the textbook venue.

RoseGuest11: Like your ideas Jennifer regarding including reading in the subject area. There is a lot of material out there that does that

LloydA: thx

RyanGuest4 . o 0 (thanks LloydA. Me too ?)

Jan_NS: So, those you might find in Borders or a commercial bookstore or Amazon.

JenniferP: Yes I know....it also helps those students out who have trouble with reading to integrate something different than just regular notes and expanding their horizons

GloriaA: Tradebooks can be a "hook" to initiate a science experience, not to squeeze science out

Jan_NS: Exactly Gloria.

Jan_NS: Do you have some examples from your own experience?

JacobP: that is a great resource for tradebooks, anyone else have any resources for other content areas?

RoseGuest11: Putting a lot of hands-on activities with the reading and science activities is also very inviting to students.

BretBi: What exactly do we mean when we say "integrating"?

MarilynM: I would also like some resources for locating literature that is written in the context of Hispanic culture to use in bilingual settings. Not just more "American or English" stories that are translated, but books pertinent to their culture. Ideas?

JenniferP: integrating different curriculums with each other.....

Jan_NS: Not sure of links, Marilyn.

MarianneH: For me "integrating means making it a part of what we are doing, transparent, not an add on

JenniferP: cooperative learning.....multiple intelligences...and so on

JohnLi: Tradebooks can also be ordered from www.booksense.com, which supports independent booksellers. :)

RoseGuest11: Hey, yeah, Jennifer. I agree with those concepts

JohnLi: The NSTA list for 2003 is great. I'll look forward to exploring it.

JenniferP: great websites everyone

Jan_NS: There are Native American stories by Paul Goble that deal with perceptions of wildlife and plants. Very accurate perceptions of these.

CherylBu: are tradebooks mini texts or units or themes

Jan_NS: can be either, Cheryl.

Jan_NS: For example, the Magic School Bus books are tradebooks.

GloriaA: Integration is effective with a theme to engage content areas

BrianGuest9: Integrating proper writing with all subjects, including science, is a skill that is fast disappearing. I hope all who read this thread try to keep the concept alive.

CherylBu: looks like a resources easier than setting up my own curriculum

RoseGuest11: Like the theme idea, Gloria. I use them a lot.

DebaprasaB: lot of sci-fi books can be used in lieu of trade books, i believe

CherylBu: okay...hadn't heard tradebook as a term

RyanGuest4: Hear, hear Brian!

SusanR explores the 2003 Outstanding Trade Books for the upcoming school year.

Jan_NS: <http://www.scholastic.com/magicschoolbus/home.htm>

ConnieL: Let's hear it for trade books. I normally don't like textbooks. They tend to be boring, whereas "real" books are great.

Jan_NS: Scifi books are awesome to check the science.

MarianneH: It is fun to use the older scifi and see what is no longer fiction

PatGuest12: Do elementary labs need gas jets? We are building a new lab.

GloriaA: Themes can be very rich and permit depth. Classroom timeframes can not be our enemy for student investigations and exciting learning. Tradebooks can embrace all of that

RoseGuest11: Are any or all of you able to deviate from the text in order to incorporate a more creative curriculum?

SunnyGuest27: that is a great idea

JenniferP: Science- Fantastic Voyage, Hot Zone, and Sphere are good choices for 4th grade and up

CherylBu: sci fi tends to invoke the use of imagination in settings other than nintendo world...they are great...especially the classics

LynneW hearing 20 schoolbus honks

Jan_NS: The Biology of Star Trek and the Physics of Star Trek are two good books for older students.

SunnyGuest27: you could use that in language arts too...old sci fi and talk about foreshadowing and prediction

MarilynM: My concern with NCLB is that it has given excuse to some schools to not teach science until grade four...literature might be the only connection.

GloriaA: Yes always deviate from text. They are a frame, not the complete answer

SusanR: At the primary/junior level I like to take the thematic approach as well..can integrate into all subject areas and cover as many necessary strands of the curriculum

Jan_NS: Very true, Marilyn.

RyanGuest4: Where do you find those downloads Jan_NS?

JenniferP: There are other books out there as well, like the TRIOLOGY series.

MarianneH: I just had a student do a great project on the physics of amusement parks

BretBi: so how do we create this synergy between science and literacy?

BrianW: You can use fiction books as well, I use ICEBOUND

JenniferP: very true Susan, that is why I like integrating different subjects with similar themes

MarkR: TRIOLOGY series? Jennifer

RobertGuest15: how many of you are team teaching concepts related to science?

ConnieL: Yes, what is the TRIOLOGY series?

BrentGuest20 use the force Connie

CherylBu: not me...I have to teach solo

JenniferP: yes it is an older series from the 70s that created a sci fi approach, that goes along with government and theology.....different though

Jan_NS: For those into Physics - there are several Webquests that deal with rollercoasters, too.

GloriaA: the NSTA has a CBC Children's Book Council which you can access for the NSTA.org website. It offers a range of wonderful trade books

JenniferP: can't remember the exact author

JenniferP: I read a lot or try to keep up with books

JacobP: There is a great website about the physics of skateboarding out there

JenniferP: has anyone ever read the Holes book

BrentGuest20: physics of skateboarding?

SusanR: Is it the exploratorium site, Brent?

Jan_NS: please send me these websites when you have a chance. jsnaher@neo.rr.com

SunnyGuest27: ok that's a great idea

BrianW: no but I hear that the book is excellent!

Jan_NS: Now, we agree that literacy is more than reading. Let's check some online project sites.

JenniferP: it is...you can incorporate it with math digging the holes.....and other subjects

CherylBu: Holes was the only book one student read cover to cover

JacobP: here is a good one <http://www.sciencegems.com/>

JenniferP: or book study to compare with movie or plays

BrentGuest20: THANK YOU>>>

LloydA: Webquests: /the/ place to go has changed in the last three weeks or so (I guess summer is when teachers have free time, or something)--apparently now you go to <http://webquest.org/> and then choose from the bottom three links on the left hand frame

ConnieL: Jennifer are you talking about the C.S. Lewis space trilogy?

CherylBu: science too...climate, animals, ecology

Jan_NS: here is an example - for science literacy as well as information literacy.

Jan_NS: <http://k12science.ati.stevens-tech.edu/curriculum/bucketproj>

JenniferP: maybe....like I said before I can't remember it off hand...I read it like 8-9 years ago.

Jan_NS: It incorporates communication within the classroom and with other classes at a distance.

CherylBu: the sites you have linked are awesome!

JenniferP: I agree

Jan_NS: thanks

Jan_NS blushes

CarrieGuest3: very good

BrentGuest20: JacobP, is the "gem" site the physics of skateboarding site?

JenniferP: <http://school.discovery.com/> is another one

Jan_NS: On the Bucket Buddies page, click on the link for teacher area

JenniferP: I have a whole list of science websites and others, but it is on my other computer, which I don't have in front of me at the moment....

Jan_NS: notice the connection with language arts.

JacobP: no...its <http://can-do.com/uci/lessons99/skateboard.html> and then there is a great list of other resources if you scroll down the page, but I don't want to interrupt Jan's presentation right now

MarilynM: I have a number of sites that I use in my preservice class but am not at the computer where I have access to them, I will send some to Jen later.

BretBi: This project might be a good example for 4th grade science in the State of Washington since we study water as well as crayfish.

Jan_NS thinks Jennifer should check out Backflip - an online bookmarking service.

BrentGuest20: you the man!

JacobP: MarilynM check out MYbookmarks.com

RyanGuest4: Awesome site JacobP!

FredB: hey - got lost for a second

JacobP: thanks

MarianneH: Marilyn, You can also check www.backflip.com

JenniferP: thanks Marianne

GloriaA: I for one will be needing this transcript this pace is so rich I don't want to miss anything

Jan_NS: the total site for these projects is: <http://www.k12science.org/currichome.html>

SusanR: Great collaborative site, Jan!

RyanGuest4: This is the kind of stuff I like to see. I want to incorporate a lot of hands-on modeling and real world examples into my math classroom.

Jan_NS: this is a great way to set it up - for all grades.

BretBi: Awesome now I am getting a clearer picture of the synergy and integration

Jan_NS: I was hoping that you would.

BrentGuest20: If you want to connect with jr. highers....one way is foster an appreciation of the art of skateboarding

GloriaA: We share so many needs and collectively these are a good stab at the solutions

Jan_NS: Real-time data projects bring the real world of science directly to the students.

CherylBu: so much information...this will take a while to sort out...thanks!

Jan_NS: Many of these projects actually use student collected data as part of their research.

BrianGuest9: Bret, tell me I don't have to dress like a sk8erboy!

JenniferP: awesome discussion everyone

JacobP: here is the original site on skateboarding science, especially interesting to students interested in that <http://www.exploratorium.edu/skateboarding/>

FredB: Jan, is it possible for you to post these URL's in your office for later reference?

Jan_NS: Thanks, Jacob.

SusanR: <http://k12science.ati.stevens-tech.edu/currichome.html> goes beyond the static page and uses the power of the computer to have interactive activities

Jan_NS: Fred, I am finalizing a webpage. I will post the link for everyone.

JacobP waves to Jan

BretBi: What about "resistance" from team members?

JacobP: show them the light

GloriaA: what do you mean?

CherylBu: try coercing via a back door approach

JenniferP: awesome site to connect with the kids who skateboard

Jan_NS: Convince through demonstration
SusanR: Set goals, Bret...use your rubrics..
BretBi: pressure to always do the same as we have in the past, or they don't like anything involving tech
Jan_NS: There are many resources here to explore.
CherylBu: convince through results
GloriaA: Convince through hands-on and inquiry
JenniferP: here here
BretBi: Great Ideas, thanks!
Jan_NS: Do not forget primary source documents as another resource for literacy.
SusanR: ..use the jigsaw method
GloriaA: Give some examples of your thinking for primary source
SunnyGuest27: I've seen the jigsaw method work well in our cohort
MarianneH: There are a lot of movies out on the web to link to science
JenniferP: yes there is
MarilynM: There are many teacher resource books available that already have some really good ideas for linking science with specific tradebooks. Most, are for elementary grades.
DoloreGuest13: What is this jigsaw method?
JacobP: kids put puzzles together all day :)
BigTexGuest31: these websites are so good!
Jan_NS: Another area that works to develop information literacy in science and across the curriculum. Virtual field trips. (another session later today with Kim)
RubenGuest17: Jigsaw is a method for group learning
BrentGuest20: each student works in pairs to create or master content
BrentGuest20: they consult with partners from other teams.
MarilynM: I believe there is a website that describes jigsaw, it may be www.jigsaw.com, not sure.
JacobP: Cooperative Learning, Spencer Kagan
BrentGuest20: they then share their products or understanding with the other partner pair in their team.
Jan_NS: During the school year, Tapped In has a session discussing the use of the Jigsaw approach with the Internet etc.
Jan_NS: You might want to check the archived transcripts in the ASO.
SusanR: I have seen the jigsaw method work successfully at the grade 2 level.
LoniS: please provide a brief description of jigsaw method?
BJ: JigsawHelper meets every third Tuesday of the month
JacobP: How does everyone access the internet with students? labs, projectors, single cpus?
LloydA: jigsaw: I did it once with a group of 20 students in geometry: first, in groups of five, each group mastered a particular proof of the Pythagorean theorem. Then the groups reshuffled into groups of four (one from each initial group), and each "master" taught the rest of the group their particular method.
Jan_NS: Good ideas everyone. Loni - scroll up - someone gave one.
JenniferP: cool
RyanGuest4: Nice application LloydA. Exactly

LloydA: It gets dicey if you have a prime number of students.

BrentGuest20: it's a great method to cover more content with depth

RyanGuest4 wonders if LloydA and myself are the only "math geeks" in the room?

BrianGuest9: Loni: Its what we did in Sizemore's class with the chapter readings

MarianneH: key piece is not only the learning but the teaching back for reinforcement and

responsibility to other learners

Jan_NS: Virtual field trips - <http://www.field-guides.com/sci/endanger/index.htm>

GloriaA: Jigsaw= primary group, they break away to become individual sources, they then re-connect to bring their knowledge to the primary group to answer a questions or problem

LoniS: thx, sorry for the repeat, I was looking at the WONDERFUL web sites!

RoseGuest11: No, Ryan, I'm definitely in math also. Grades 5-8

Jan_NS: No problem Loni.

RyanGuest4: Awesome Rose

BrentGuest20: we forgive and forget here at tapped in.

JacobP: Jan can you create your own field trips, or find ones pre-made?

Jan_NS: this one is premade. Or you can create your own.

Jan_NS: The session this afternoon will discuss it more.

MarianneH: You can create field trips in TrackStar at the hprtec.org site

Jan_NS: very true, thanks for the reminder, Marianne.

MarilynM: You can create fieldtrips using a webquest approach but there are lots on the web already.

JacobP: yes, I have seen some of those

BJ: You can also use TramLine to make field trips. Kim Foley will be presenting that information later today

JenniferP: excellent approach

JacobP: thanks

GloriaA: which session this afternoon will discuss it more, please?

Jan_NS: Use the field trip as a starting point, then develop additional reading and writing and bring in those wonderful tradebooks.

BJ: Gloria, it's virtual field trips

JacobP: How do you access the web with students, lab? projectors?

MarianneH: thanks for a great session.

LloydA: Found the jigsaw site: it's a .org. <http://www.jigsaw.org/> My school is an AVID site, so we're strongly encouraged to use the technique.

GloriaA: Thanks

LouiseP: AVID?

LoniS: Outstanding!

MarilynM: I hate to leave this discussion but I am already 15 minutes late for a meeting. Great discussion and I hope everyone sends websites to Jen and she, somehow, gets them to the rest of us.

JenniferP: sounds good

Jan_NS: Also, make sure that you access the websites of organizations such as PBS and the World Wildlife Fund, NASA, etc. Here is one that makes for good literacy connections <http://www.enviroliteracy.org/index.php>

SusanR: Here are the 10 steps to setting up a jigsaw classroom
<http://www.jigsaw.org/steps.htm> please explore at the end of this session.

LloydA: AVID is a program for increasing achievement of just-below-median students. Can't remember what it stands for, and can't readily find a website. Achievement = collegeboundness.

LouiseP: Thanks Jan

LouiseP: And you too Lloyd

Jan_NS: We have touched on a variety of subjects and ideas for science and literacy. I hope that this has been fruitful for all of us.

Jan_NS: I know it has been for me.

BrentGuest20: definitely.

DebrasasB: thanks Jan for a good session

JacobP: thank you

KimFl: wonderful resources, thank you!

LoniS: great ideas, thx

Jan_NS: I will stick around for comments or questions.

BrentGuest20: Thanks again Jacob P for those physic sites...incredible

RyanGuest4: definately Jan. this was great

KeikoS bows to Jan for her presentation.

SusanR: Always a great sesssion, Jan

JenniferP: awesome talks

KeikoS: Thank you all for participating!

JenniferP waves goodbye to everyone

DegranGuest18 gives standing O

JhromcGuest23: Great, even for a newbie

Jan_NS thanks all for attending.

GloriaA: This one was great!! Thanks Jan & Keiko

RyanGuest4 joins DeGrande in the standing O

HeribertF: Thanks, I learned a lot, bye

BrianGuest9: Very nice, thanks from a first timer.

RoseGuest11: Thanks for all the input. It was great!

DoloreGuest13: thanks for all of the great links. Enjoyed the session.