Title of Session: Beyond Penguins and Polar Bears

Moderator: Kimberly Lightle **Title of File:** 20090708penguins

Date: July 8, 2009

Room: Beyond Penguins Group

KimberlySL: Hi everybody - just getting everything ready to go

KimberlySL: I'm back - nice group!

JeffC joined the room.

SusanR: indeed

JeffC waddles into the room.

BJB2: A reminder again to go to Actions in the top right of the chat and select DETACH to make it easier to read the scrolling chat

SusanR: saw your table session, Kimberly

BJB2 wonders if Jeff needs to go out and play more baseball?!

SusanR: it was buzzing

JeffC: nah... half hour was enough... just waddling like a penguin now to get into the mood.

KimberlySL: waddles???

SusanR . o O (wonders if you are getting as much rain as we are in Ontario)

KimberlySL: of all places to run into BJ - at a bar...

JoseVG: I have a friend coming in one minute I hope.

LaurenF joined the room.

KimberlySL: let me clarify - it was a reception at NECC that just happened to be at a bar - ha

JoseVG: hi Lauren

JeffC: it's a bit grey today... but no rain.

LaurenF: Hello:D

SusanR: an Elluminate reception

KimberlySL: Hi Susan!

SusanR: we met!!

SusanR: too

KimberlySL: we did - I remember!

KimberlySL: Hi everyone - let's introduce ourselves

BJB2: please tell Kim where you are located and what you teach or hope to teach

GinaG: I am located in Staten Island, Ny. I teach Kindergarten

SusanR: Sue from Ottawa, Ontario. I offer the K to 3+ Great Resources sessions here at TI

DialaF: STATEN ISLAND. teaching UPK

BJB2 realizes you are here to fulfill an assignment, but I know you will be thrilled with what you learn during this session!

GinaG: Great

JoseVG: I am Joe I teach in LA humanities

LaurenF: Lauren - I teach in LA, Math

KimberlySL: I'm a science educator at the Ohio State University - Beyond Penguins is one of my National Science Foundation funded projects

JoseVG: Nice

KimberlySL: What a great group - I will assure you that even though BP is designed for K-5 everyone will learn a lot!

DialaF: OF COURSE

KimberlySL: We've been using Tapped In to introduce issues of the Beyond Penguins and Polar Bears Integrating Literacy and Science online magazine

KimberlySL: Because it is such an important topic, we're going to go back and re-visit the issue from October 2008 – Energy and the Polar Environment - http://beyondpenguins.nsdl.org/issue/index.php?date=October2008. This will be home base.

BJB2: hold down your ctrl key when you click on the url

KimberlySL: So when I say "go home" please go to the above URL

GinaG: ok

BJB2: this overrides your pop up blocker...or turn off your pop up blockers

KimberlySL: BTW - we've had 14 issues so far - each of the issues has a different science theme and literacy strategy but all issues are laid out exactly the same

BJB2: uh oh, Kim: Requested Issue (October2008.) is not available at this time.

KimberlySL: everything is online and free

KimberlySL: http://beyondpenguins.nsdl.org/issue/index.php?date=October2008

KimberlySL: let's try again...

BJB2: ahhh...much better!

KimberlySL: great - geesh

BJB2 checks to see if everyone got that url?

DialaF: it is not working

KimberlySL: the pink polar bear - one of my favorite images

KimberlySL: try http://beyondpenguins.nsdl.org/issue/index.php?date=October2008

LaurenF: I can't get the link to work

JoseVG: got it

DialaF: me too

GinaG: should we click it now

BJB2: are you holding down ctrl? If you are and it doesn't work, hold down SHIFT

KimberlySL: click on the last link I provided

DialaF: shift is not working too

LaurenF: I got it, I clicked on the link in the main Penguin page

BJB2: then open a new browser, go to Actions in the top right of the chat and select Send to Pasteboard...

KimberlySL: another way to get to all the issues is go to http://beyondpenguins.nsdl.org and scroll down - click on the pink polar bear

BJB2: then copy the url and paste it into the new browser window

KimberlySL: Gina - were you able to get to the page?

GinaG: What do u do after u click the polar bear?

DialaF: what polar bear?

GinaG: It is in the sun

KimberlySL: The homepage image of issue 7 is a polar bear

DialaF: okay thank you

JoseVG: got it

LaurenF: got it

KimberlySL: the issue title is Energy and the Polar Environment - all with me?

KimberlySL: oh good

JoseVG: yes

DialaF: got it

KimberlySL: Look at the page for a couple of seconds – you'll see departments and columns. Each issue of the magazine is laid out the same way. You can get to all the previous issues by clicking on Archive at the top of the page in the header.

GinaG: yes

JoseVG: I see it

KimberlySL: there are five departments with column titles under the depts - science content knowledge, misconceptions, etc.

KimberlySL: I want to start with the word albedo – have any of you heard of it before? BTW – the "e" is pronounced as a long "e."

DialaF: nope

GinaG: no

LaurenF: no

JoseVG: no

KimberlySL: Well - let's learn something about it - click on the Science Content Knowledge column under the Professional Learning Department

JoseVG: he proportion of the incident light or radiation that is reflected by a surface, typically that of a planet or moon.

KimberlySL: good definition!

KimberlySL: the url of the actual article is http://beyondpenguins.nsdl.org/issue/column.php?date=October2008&departmentid=prof essional&columnid=professional!science

JoseVG: oxford dictionary

KimberlySL: Once the sun's energy reaches earth, it is intercepted first by the atmosphere. A small part of the sun's energy is directly absorbed, particularly by certain gases such as ozone and water vapor.

KimberlySL: Some of the sun's energy is reflected back to space by clouds and the earth's surface.

KimberlySL: Most of the radiation, however, is absorbed by the earth's surface. When the radiation is absorbed by a substance, the atoms in the substance move faster and the substance becomes warm to the touch. The absorbed energy is transformed into heat energy.

KimberlySL: Look at the third image – you can see a visual of this process.

KimberlySL: Now read the next section – REFLECT OR ABSORB? OK – what's albedo? (In your own words)

LaurenF: albedo is the part of the radiation that is bounced back into space and not taken

into the Earth (and warming it)

GinaG: How much energy is absorbed

DialaF: the radiation reflect into space by an object

JoseVG: A reflected percentage of solar rays by an object

KimberlySL: good - so if an object has a high albedo (around .7) what does that mean?

LaurenF: the higher the number means more is reflected back to space

KimberlySL: great

DialaF: more radiation is reflected

GinaG: more energy

KimberlySL: so think about what is happening to earth's energy budget when white

ice/snow melts

JoseVG: higher the number more is reflected

KimberlySL: more energy is absorbed leading to higher temperatures which means more

ice melts, etc

GinaG: not good

KimberlySL: the cycle is pictured in the last image on that page

CamilleL joined the room.

DialaF: I see

KimberlySL: Hi Camille - welcome

CamilleL: hi there!

KimberlySL: we are looking at issue 7 of Beyond Penguins - http://beyondpenguins.nsdl.org/issue/index.php?date=October2008

KimberlySL: Can you think of places in your curriculum where you teach this concept?

KimberlySL: maybe you don't use the term albedo - but energy absorption and

reflection?

JoseVG: Maybe with hunters and gatherers...

JoseVG: Comparing the earth the way it was...

KimberlySL: Go back to the issue page:

http://beyondpenguins.nsdl.org/issue/index.php?date=October2008. Click on Lessons and Activities under Science Literacy. The lessons have been categorized by K-2 and 3-5. We've included lessons that integrate literacy.

JoseVG: With the way it is now.

KimberlySL: Good idea Jose

SusanR: Understanding Life Systems

GinaG: Is that on the home page

JoseVG: thank you

KimberlySL: go back to the homepage and click on Lessons and Activities under the department Science and Literacy

LaurenF: I could use the albedo to look at positive and negative numbers in my math classrooms

JoseVG: yeah Lauren

KimberlySL: Lauren - good idea - you could also use it when you are teaching percentage

LaurenF: or decimals too! :D

KimberlySL: aren't fractions a wonderful thing!

KimberlySL: back to the issue page - http://beyondpenguins.nsdl.org/issue/index.php?date=October2008

KimberlySL: Find the department Science and Literacy - click on the link that says Lessons and Activities

KimberlySL:

 $\underline{\text{http://beyondpenguins.nsdl.org/issue/column.php?date=October2008\&departmentid=literacy!lessons}$

DialaF: okay

JoseVG: okay

KimberlySL: Take a couple minutes and look at a few of the lessons. Come back and share what you've found.

GinaG: books and resources

KimberlySL: what about a specific activity that really captures your imagination?

DialaF: lesson plans

LaurenF: I liked the Radiation Lesson - it fits with the 6th grade science standards for California

GinaG: I would like to read the story to clarify things

DialaF: That mostly everything we have is found in nature

KimberlySL: Gina - we have highlighted activities that would work in a K class

KimberlySL: we've included both science and literacy lessons (mostly from Read, Write, Think)

GinaG: Thanks

KimberlySL: Let's keep going - Each issue has a non-fiction expository story written for grades 4-5 by a children's science writer. We take this story and write versions for grades K-1 and 2-3. Go back to the issue page and click on Feature Story under Science Literacy.

SusanR: Hot and Cold Colours ..integrates well with math ..readabilty is great for grade 2

JoseVG: I saw a lesson on radiation that went into the background of convection and conduction. It was a great to find activities that were very hands on.

KimberlySL: Maybe we should wait a second until everybody is back

DialaF: got it

GinaG: ok

KimberlySL: Ok - Each issue has a non-fiction expository story written for grades 4-5 by a children's science writer. We take this story and write versions for grades K-1 and 2-3. Go back to the issue page and click on Feature Story under Science Literacy.

KimberlySL: Issue page is the homepage for this issue - http://beyondpenguins.nsdl.org/issue/index.php?date=October2008

KimberlySL: The Feature Story link is under the Lessons and Activities link

JoseVG: ok

LaurenF: That's a great feature, because the students can read the story at their own pace and report back!

KimberlySL: Steve's story actually begins Far away from us in the outer reaches... (fourth paragraph). There are printable PDF files and electronic versions of the books.

DialaF: great

KimberlySL: Steve is the children's story writer

GinaG: very helpful

JoseVG: nice

LaurenF: I like that the students can listen to it and read along

KimberlySL: Scroll down and click on one of the electronic book links. Click on the paw to listen to the text being read to you.

KimberlySL: click on the play button (up in the right hand corner) - clicking on the paw will turn the page (oops)

KimberlySL: BTW - the K-1 version has a fish to click on to turn the page

SusanR: outstanding

JoseVG: great ELD kids

JoseVG: great for ELD kids

GinaG: It makes everything so understandable

KimberlySL: We have a feature story for each issue of the magazine - we can look at all of them in a minute

DialaF: beautiful

KimberlySL: Each issue focuses on a literacy strategy – this one focuses on Note Taking. Go back to the issue page and click on Literacy Content Knowledge under

Professional Learning. This article contains templates that can be used with the Feature Story.

KimberlySL: homepage is

http://beyondpenguins.nsdl.org/issue/index.php?date=October2008

SusanR: you are reaching all levels and modalities; auditory and visual learners too

KimberlySL: Back over to the Professional Learning department and then click on the Literacy Content Knowledge link

JoseVG: ok

LaurenF: ok

DialaF: okay

GinaG: good for helping with assessments

KimberlySL: if you scroll down to the bottom of the page - http://beyondpenguins.nsdl.org/issue/column.php?date=October2008&departmentid=professional&columnid=professional!literacy - you'll see two activities that you can use with the feature story

KimberlySL: the ebook feature stories and the second activity look great on a whiteboard

JeffC: redirect for the above link: http://sn.im/notetaking1

KimberlySL: thanks Jeff

KimberlySL: I know the URLs of specific articles are huge - that's why I keep asking people to go back to the homepage of the issue!

JoseVG: The note it 3 ways is a great active reading strategy.

CamilleL: thanks, Jeff.

KimberlySL: I wanted to end up at the Virtual Bookshelf. Go back to the issue page and click on virtual bookshelf. Are you familiar with any of these books? go to the Virtual Bookshelf under the Science and Literacy Department

KimberlySL:

 $\frac{http://beyondpenguins.nsdl.org/issue/column.php?date=October 2008 \& department id=literacy \& columnid=literacy!bookshelf$

GinaG: not familiar with them but can't wait to get some for my library. Very helpful thanks

KimberlySL: we work with school librarians to choose books for every issue - most if not all should be in your school library

JeffC: http://sn.im/literacybookshelf

JoseVG: Not familiar with the book since I am not a science teacher

KimberlySL: thank you Jeff

DialaF: these are great books

KimberlySL: there is a virtual bookshelf for each issue of the magazine

KimberlySL: since we have a few more minutes - let's look at another column under the Professional Learning department

JoseVG: ok

KimberlySL: back to the issue homepage and click on Misconceptions link

KimberlySL: we highlight student misconceptions for each issue of the magazine and include a misconception probe that you can use with your students

KimberlySL: the probe for this issue is at http://onramp.nsdl.org/eserv/onramp:1241/What_Comes_From_the_Sun.pdf

JoseVG: ok

LaurenF: these activities are very useful

KimberlySL: you can see other columns - Integrating Technology, Equity, Teaching and Assessment Strategies, etc.

CamilleL: so clearly put together!

KimberlySL: there are researcher stories, integrated activities (under the Across the Curriculum department)

JoseVG: I could adapt these probing strategies for humanities

JeffC: I already had a shortcut for the August 2008 "misconceptions"

article: http://snurl.com/misconceptions

KimberlySL: One last place to look - the header

JoseVG: ok

KimberlySL: Stories for Students, Browse Columns, Archive, Podcasts, and Change

Language

CamilleL: this page great for PD

KimberlySL: The change language feature allows you to translate the content of the

magazine into 14 languages

JoseVG: wow

GinaG: That is very helpful for ESL

LaurenF: That's great for different language parents too

DialaF: wow

JoseVG: good point Lauren

KimberlySL: the archive provides links to all the issues of the magazine

GinaG: can't wait to see what other books to get'

DialaF: are there any recent issues?

KimberlySL: next issue will be available August 1 - icebergs and glaciers

KimberlySL: Diala - click on Archive or go to http://beyondpenguins.nsdl.org

DialaF: okay

KimberlySL: we are publishing a new issue every other month

DialaF: thank you

BJB2: You all might be interested in attending the K to 3+ Resources discussion on Tuesday, July 14. The topic is Great Resources and Revelations from NECC 09. Please join Sue Roseman for that discussion (even if you don't HAVE to for an assignment :-))

KimberlySL: latest issue is polar oceans - http://beyondpenguins.nsdl.org/

JoseVG: what is necc stand for

BJB2: The next Beyond Penguins and Polar Bears discussion will be on August 5...tell your colleagues!

BJB2: NECC = National Education Computer Conference

JoseVG: will do

GinaG: Thanks for clarifying

BJB2: Did this discussion live up to your expectations?

KimberlySL: please look at the archive - what issue of the magazine would you like to discuss next month?

KimberlySL: http://beyondpenguins.nsdl.org/archive.php

GinaG: Polar Plants looks interesting. Didn't realize plants could live in such conditions

JoseVG: tundra life in the polar extremes

LaurenF: Polar Patterns Day Night and Seasons looks interesting

KimberlySL: you can't imagine how much I've learned! there is an active volcano on Antarctica!

DialaF: they are all interesting but I will choose rocks and minerals

BJB2: Thanks, Kim...this was a fun group of participants!

GinaG: thank you

JoseVG: thank you Kim

DialaF: thank you

CamilleL: I actually contacted the photographer of the Polar Plants -- Henning -- he's a doll!

KimberlySL: thank you! what a great group!

LaurenF: Thank you for leading the group! :D

JeffC: thanks Kim

CamilleL: thank you too, Kimberly == valuable website!!!

KimberlySL: Please join us next month - looking forward to it! Bye

JoseVG: I'm going to bookmark your website and send it to our science teacher

KimberlySL: yes....

GinaG: bye, thanks again

LaurenF: Great - Thank you:D

BJB2 waves bye and goes to get dinner

KimberlySL: good

JeffC: http://sn.im/math2.0 [www_futureofeducation_com]

GinaG: bye Diala see you Thursday

DialaF: bye see you in class

JoseVG: Thank you Kimberly and bye to all.