

Title of Session: NASA Resources for Students and Teachers (1)

Moderator: Sharon Bowers

Title of File: NASA 1

Date: July 19, 2006

Room: NASA Group (K-12 Student Campus)

SharonWB: Pat, tell me a little bit about you and your teaching.

PatE: I have been teaching 31 years. I have a 5th grade homeroom and teach Science to 5th to 8th.

SharonWB: What state?

PatE: Missouri - Where are you?

SharonWB: I'm in Virginia.

PatE: What do you teach?

SharonWB: I've been an educator in residence for NASA Langley Research Center for the last 2 years.

SharonWB: I usually teach life science.

SharonWB: But have been a science resource teacher for grades K-8.

PatE: Why did you decide to go to NASA?

SharonWB: I'm "on loan" to NASA and will return to the classroom in a few years.

SharonWB: These past 2 years, I've been developing some of the materials you'll see in the NASA resource room

SharonWB: Pat ... if you go to "links" in the left column, you'll see a few resources that I've pulled for today.

SharonWB: Julia ... tell me a little about the students that you teach.

JuliaY: they are future teachers of ESL

SharonWB: Oh ... Julia you may be interested in two programs that NASA has.

SharonWB: Pat ... would you like to explore some of the NASA links?

PatE: Yes

SharonWB: They're grouped by topic and ages

SharonWB: Please feel free to go to the "links" and click on any folder.

SharonWB: The links will navigate you to some of our resources.

PatE: I need links for 5th through 8th grades

SharonWB: Michael ... tell me a little about you and your students.

SharonWB: Pat ... Go to the Middle School Teachers folder

MichaelWev: I teach Mathematics and computer applications at the HS level

PatE: Where is the folder?

SharonWB: Pat ... do you see "links" under the left column

MichaelWev: I have been teaching three years and am enrolled in a BTSA program.

SharonWB: Michael ... have you used any NASA resources before?

MichaelWev: No, I have not.

JaniceRH: Hello. I am totally lost. I have to visit or take a class in here for a technology college course I am taking. I cannot find the calendar.

JeffC: You're in the NASA group for the Festival now Janice.

JaniceRH: What is that?

JeffC: You're here on a great day, there are scheduled events all day.

BJB2: Janice, you're in a session...please stay here and see what exciting things Sharon has to share!

SharonWB: Michael ... can you see "links" in the left column?

BJB2: this is the NASA room in the student campus...just being 'unveiled' today!

BJB2: as a resource for both teachers and their students

MichaelWev: yes.

JaniceRH: What kind of resources are there?

SharonWB: Click on links and you'll see some folders that I've set up with a few NASA resources inside

SharonWB: Janice ... there are math, science, technology resources for teachers and students in K-12

SharonWB: Janice ... do you see "links" in the left column?

JeffC: The Welcome screen (top frame) has many links and folders, plus there are additional links to resources on the left of the top frame.

JaniceRH: Now I do.

SharonWB: Janice ... click on Links and take a look at some of the resources

SharonWB: Janice ... what grade and topic do you teach?

SharonWB: Michael ... have you ever used SQUEAK with your students?

JeffC: that will reattach your chat and you can see the top frame.

JaniceRH: I am an administrator for special education. I used to teach k-8 mainly.

MichaelWev: I don't know Squeak

MichaelWev wonders

SharonWB: Michael ... I think you and your students would like SQUEAK. Go to the folder for Middle School Teachers

SharonWB: and then click on NASA CONNECT

SharonWB: We have some already developed SQUEAK activities in our NASA CONNECT materials.

SharonWB: But students can use SQUEAK to create their own simulations and games

MichaelWev: should I click on the Squeak under News

SharonWB: You can take a look at SQUEAK in several ways from that site.

SharonWB: You can navigate to more info about SQUEAK from the left column.

SharonWB: And you can see one SQUEAK activity under "now available."

ReneC: Hello, just browsing around, this is my first time so I'm a little slow

SharonWB: Just glad to have you here Rene.

SharonWB: This room has a variety of NASA resources for students and teachers.

BJB2: this is the NASA room in the student campus...just being 'unveiled' today!

BJB2: as a resource for both teachers and their students

SharonWB: Rene ... what grades do you teach? subjects?

ReneC: Middle school, sixth grade earth science this year

SharonWB: Janice .. you said that you're an administrator for special ed. What grades?

SharonWB: Rene ... do you see "links" under the left column?

ReneC: yes

SharonWB: Go there ... and then choose "For Middle School Teachers"

ReneC: Thank you

SharonWB: And ... you should also check out the Cloud Resources

ReneC: Great! I

PatE: Astr-Venture looks interesting

SharonWB: Anyone teaching in a school with a high free and reduced lunch population?

ReneC: I'm taking a class through Foothill LINC program and I am looking to create a tech lesson on weather

SharonWB: Pat ... I love AstroVenture

SharonWB: Rene ... have you used S'COOL before?

ReneC: no

SharonWB: Take a look at that site under Cloud Resources

ReneC: What is it?

SharonWB: S'COOL asks students to take cloud observations (follow set protocol) at particular times when satellites are making observations. And then ... NASA has both a ground level set of observations and satellites data.

SharonWB: Student data is collected and used ...

SharonWB: And ... Rene ... go to NASA CONNECT

SharonWB: There's a particular episode you may want to see called "The A Train."

ReneC: Cool! I was exploring a few projects on Global Schoolhouse

JaniceRH: Elementary

SharonWB: You should also look into GLOBE. If you have a chance to receive GLOBE training, it's great.

SharonWB: Janice ... I bet your students would like NASA Kids' Science News Network. Go to "Links" under the left column.

SharonWB: And then For Elementary Teachers.

SharonWB: Michael ... what do you think about SQUEAK?

JaniceRH: Just looking I thought my own son would love it.

SharonWB: Pat ... I used AstroVenture in a unit that I called "Looking for Life in all the Right places."

SharonWB: Janice .. NASA Kids Science News Network (KSNN) also has a twin program, Noticias NASA.

PatE: Sharon - what grade level was the unit/

SharonWB: I was targeting it for 6th grade gifted. I taught academically gifted middle school students..

SharonWB: We compared planets and moons in the solar system to the Earth

SharonWB: to see if we could find "contenders" for life.

PatE: Sharon - what are the highlights for the students?

MichaelWev: I have downloaded it, but it suggests I close all windows programs to install squeak

SharonWB: We identified the unique qualities of Earth that made it conducive to life as we know it.

SharonWB: and then compared the abiotic features of Earth with the abiotic features of moons and planets

SharonWB: students then had a Socratic seminar to argue for NASA funding

SharonWB: Michael ... I'm not techno-literate .. you may want to wait to load it so you don't have to leave the group.

BJB2: how cool, Sharon!

PatE: Sharon - the unit sounded good and on the same order as a unit I did with the 5th graders comparing regions of the U.S.

SharonWB: Oh ... Pat and I are talking about a unit "looking for life" in the universe

SharonWB: Pat ... in the same section as Astro Venture ... you may want to look at alien safari and habitable worlds

SharonWB: When the Phoenix Mars Lander goes to Mars in 2007, it will be looking at the top layer of permafrost and still interested in signs of life.

SharonWB: My unit was an integrated life and earth science study

SharonWB: And ... just a blast from the past ... tomorrow is the 30th anniversary of the Mars Viking Landing

SharonWB: Rene -- tell me more about the technology lesson on weather

SharonWB: Rene ... have you ever heard of MY NASA DATA?

JeffC: Sharon... a couple of points for this group: 1) I used Tapped In last year with my daughter's 2nd grade class. I created a science unit in her room and will be happy to show people how to use it for teaching (anything) to young students at another time 2) If you would like to join this group, please let me know, and I will invite you

JeffC: thanks... I'm inviting everyone here unless I hear you don't want to be in this group.

PatE: On the Phoenix Mars link you are able to sign up for a free poster comparing Mars and Earth.

SharonWB: yes

SharonWB: it's a great poster

SharonWB: And ... there are some good video clips there too

SharonWB: NASA's Vision for Space Exploration has us returning to the Moon between 2018 2020 and then on to Mars.

SharonWB: It's an exciting time for students

SharonWB: Rene ... if you have a chance go to My NASA DATA ...
<http://mynasadata.larc.nasa.gov/>

SharonWB: There are lessons here that use NASA data gathered over the last 7 years

SharonWB: Rene ... I changed the name of the "Cloud Resources" to "Weather Resources" and added the My NASA DATA link.

ReneC: Thanks

PatE: The links were interesting.

SharonWB: Michael ... what math do you teach?

SharonWB: Pat ... tell me more about the topics you teach.

SharonWB: I can guide you to some other sites that may be helpful.

MichaelWev: I am not sure of my assignment this year. Last year I taught the CAHSEE remedial math class, the year before it was Algebra 1

SharonWB: We're just starting an Algebra 1 project

SharonWB: The plan is to use NASA scenarios as applications for the math.

MichaelWev: tell me more, please

PatE: I teach life, earth, physical, and biological science

SharonWB: For example ... if you go to the "For Middle School teachers" link, NASA CONNECT, and look for the episode "Rocket to the Stars"

SharonWB: You'll find a video that talks about new forms of propulsion and uses algebra for the hands-on activity.

SharonWB: We're going to try to write lessons that pair NASA research and technology with the basics of Algebra 1

MichaelWev: sounds great, I'll have to look at it later

SharonWB: It's not written yet ...

SharonWB: But I'll have a folder here and links when we have something started

PatE: Sharon - will the students help write the unit?

SharonWB: The algebra unit?

PatE: Yes

SharonWB: A high school math teacher is working on that right now.

SharonWB: and then we'll beta test with her students

SharonWB: we're also working on a "Space Medicine" curriculum

SharonWB: for high school

PatE: Sounds good - the students like to have lots of input>

SharonWB: It will be a full-year where we study the body's systems and how they'll be affected by extended time in a reduced-gravity environment.

BJB2 sends Sharon racing out the door so she can get to the family reunion in time for the next NASA open house!

SharonWB: And ... we're working on some education modules that compare 17th Exploration (Jamestown) with 21st Century Exploration (return to the moon)

SharonWB: Thanks.

SharonWB: Pat, Rene, Jeff, Michael, and BJ -- it was great talking with everyone

SharonWB: Please let me know if I can help guide you to any resources in the future.

PatE: Nice chatting with you!

SharonWB: Bye

MichaelWev: Thanks Sharon.