

Title of Session: NASA Resources for Teachers and Students (2)

Moderator: Sharon Bowers

Title of File: NASA 2

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Room: NASA Group (K-12 Student Campus)

SharonWB: Sherry, Jim, Derrick ... tell me a little about you and your teaching situations.

DerrickS: I'm a high school math teacher in CA

JimHi: Retired science teacher but will be teaching online classes in the Kentucky Virtual High School this fall

SharonWB: Have any of you used NASA resources before?

SherryC1: I teach Middle School computers

HeatherBu joined the room.

JimHi: Frequently

DerrickS: no

SharonWB: Hello Heather!

HeatherBu: Hi, Sharon

SherryC1: I haven't, but saw a NASA demonstration last week

SharonWB: Jim ... what resources have you used?

JimHi: Near earth objects

SharonWB: Sherry ... where did you see a NASA demo?

JimHi: some other resources using earth geography

SherryC1: At a New Teacher Academy in South Dakota

JimHi: can't remember the specifics

SherryC1: Carol Greco did the demo

SharonWB: We've created this NASA resource room as a way to introduce educators to some NASA web sites.

SharonWB: We hope to have teachers bring their students to this room to use the resources

SharonWB: and perhaps to share work between classes

SharonWB: and, when we can schedule them, to join guest speakers

SharonWB: I am an educator in residence at NASA Langley Research Center

SharonWB: For the last 2 years I've helped develop some of the resources you'll see in a few minutes

SharonWB: and for next year I'll be helping to write some teacher modules that will use these resources

BJ cheers for Sharon!

SharonWB: Thanks, BJ.

JimHi great stuff

HeatherBu: super!

DerrickS: excellent

SharonWB: It has been fun.

SharonWB: Let me take you to some of resources that you and your students may like.

SharonWB: Do you all see "links" in the left column?

HeatherBu nods

SherryC1: yes

SharonWB: Please click on this and it will take you to some folders that I've created for today.

SharonWB: A disclaimer ... in NO WAY have I included ALL of NASA's resources here ...

HeatherBu: This looks great, Sharon!

SharonWB: These are some that I've used recently with teachers

SharonWB: And ... there are things here for educators AND for students

SharonWB: The main web site for NASA is called the NASA portal.

SharonWB: That's www.nasa.gov

SharonWB: I've pulled several things from the portal ...

SharonWB: The "for kids" and "for students" sections come directly from the portal

SharonWB: Jim ... have you used any LandSat maps?

JimHi: A few

SharonWB: The Landsat link is in the "Looking at Earth from space" folder

SharonWB: Jim ... we're working with Landsat on a Jamestown project

SharonWB: They're going to re-size some Landsat maps so they can be superimposed over a map used by John Smith when he mapped the area around Jamestown.

SharonWB: Katy ... what grade and subject do you teach?

HeatherBu: neat

KatyD: I teach English as a foreign lang. in Argentina secondary students

SharonWB: Jim ... it's not posted yet ... but we're working on some Algebra activities that you may be interested in

SharonWB: Katy ... your students may get a kick out of one of our programs ...
Noticiencias NASA

KatyD: the 1st. folder?

SharonWB: If you go to the NASA Spanish Resources

SharonWB: you'll find this link

SharonWB: the program that I manage is called NASA Kids Science News Network

SharonWB: it's for students in grades 3-6

SharonWB: Noticiencias NASA is the twin program to NASA KSNN

SharonWB: all of the videos and web resources are in Spanish

KatyD: yes I would like to see how you use it

SharonWB: Go to the NASA Spanish Resources folder

SharonWB: and then to Noticias NASA

KatyD: I want my stds. to see it in English

SharonWB: Then ... go to "For Elementary Teachers"

SharonWB: Click on NASA Kids Science News Network

KatyD: ok in the same link

SharonWB: That will take you to a front page that will let you choose to go to NASA KSNW or Noticias NASA

SharonWB: The cover package is 12 programs we just completed with NASA Johnson Space Center

SharonWB: The students in the videos are students from the Houston area

SharonWB: We held open auditions for the Hispanic community in the Houston area to find these student newscasters

SharonWB: Jim ... do you teach weather, too?

JimHi: No, that was not in our curriculum in 7th grade

JimHi: it was taught in 6th grade

SharonWB: I ask because there's a relatively new site called MY NASA DATA

JimHi: I may have an earth-space course this fall

SharonWB: that uses atmospheric data

SharonWB: If you go to the Weather Resources

SharonWB: You'll find this link

SharonWB: They've created microsets of some atmospheric data from the last 7 years

SharonWB: so students are using authentic data -- looking for patterns and trends

SharonWB: Derrick ... tell me more about the math that you teach

SharonWB: And Heather ... tell me a little about your teaching situation

HeatherBu: I'm a Tech teacher in a middle school

HeatherBu: I'll be using this room with my students

HeatherBu: so they can gather data and explore

SharonWB: Great!

HeatherBu: then we'll integrate the info as I help them learn to use the basic tech applications

SharonWB: Have you ever used SQUEAK with your students

HeatherBu: No...

JimHi: Sharon there is some great sets here that could be used in our online learning experiences

SharonWB: And ... the MY NASA DATA folks would love to have teachers post their own lessons

DerrickS: I teach Algebra and AP Calculus

HeatherBu: . o O (SQUEAK?)

SharonWB: Heather ... go to "For Middle School Teachers"

SharonWB: and look for NASA CONNECT

HeatherBu: nods

SharonWB: Derrick ... we have some applications for algebra at NASA CONNECT

SharonWB: You can find that under "For Middle School Teachers"

SharonWB: Heather ... you can see SQUEAK activities under the left navigation tool

SharonWB: or in the center of the screen

HeatherBu: I see. Thanks!

SharonWB: SQUEAK is free and you can download it ... but not while we're chatting

SharonWB: One of my colleagues writes all of the SQUEAK activities for CONNECT

SharonWB: We're working on having him add a SQUEAK playground to Tapped In

SharonWB: Derrick ... if you get to NASA CONNECT

HeatherBu: cool

SharonWB: look for the episode called Rocket to the Stars

SharonWB: NASA CONNECT has 3 parts to every program

SharonWB: there's a 30-minute video

SharonWB: a hands-on activity

SharonWB: and web challenges (SQUEAK)

SharonWB: the focus is to integrate math, science, and technology

SharonWB: and to introduce students to cutting edge NASA research

DerrickS: I'm looking at it right now

KatyD: how do I get to NASA connect

SharonWB: I think there might be some nice real world applications for your algebra students

SharonWB: Katy ... go to "For Middle School Teachers"

SharonWB: Once there ... you'll see the NASA CONNECT folder

SharonWB: You'll also see some other interesting sites in the "For Middle School Teachers" folder

HeatherBu: my science and math teachers are going to love this!

SharonWB: Are you all familiar with NASA's Vision for Space Exploration?

SharonWB: Heather ... that's music to my ears

DerrickS: I like how these math activities connect with the NCTM standards

KyemberlyT joined the room.

BJ: welcome, Kyemberly

SharonWB: Derrick ... it's just a paper concept right now ... but we're working on something for AP students too

SharonWB: Hello Kyemberly

KyemberlyT: Hello all

SharonWB: Kyemberly ... tell us a little about you and your students

KyemberlyT: I am a Special Education teacher. I was introduced to TI through Michael H. my guide for a CU course. My students are very low readers mostly ESL.

SharonWB: Kyemberly ... let me take you to a program that has both Spanish and English components

KyemberlyT: great, Let's go

SharonWB: Do you see "links" under the left column?

SharonWB: Click on this and then look for the folder called "For Elementary Teachers"

KyemberlyT: Left column of what

HeatherBu: in the main window, Kyemberly

BJ: above this chat window, Kimberly

HeatherBu: Under Welcome About Us Notes

KyemberlyT: Okay, but I don't see Welcome About Us notes just Welcome to the NASA Resource Room

HeatherBu: do you see the picture with the grey columns?

KyemberlyT: yes

HeatherBu: look right beneath that picture, in that column

DerrickS: Sharon, thank you for organizing and providing all of the links I will share this with many other math teachers in my district

SharonWB: Derrick ... I hope to keep "growing" the folders as we complete new things

SharonWB: Thanks for sharing this with others

JimHi: I have already emailed a few links to friends

SharonWB: Great!

SharonWB: We're working on a high school curriculum about space medicine right now

SharonWB: It looks at the human body systems and how they'll be affected by living in a reduced gravity environment

JimHi: I am interested in what you have planned for AP

JimHi: I may have an AP Biology course as well

SharonWB: We're hoping to write some AP Calculus and Physics problems that use real NASA data

KatyD: I will share with the other teachers they love it

SharonWB: As a teacher ... I always wanted my students to realize that the work they were doing was "real"

SharonWB: Katy ... thanks!

SharonWB: Kymberly ... did you get to the "For Elementary Teachers" folder?

HeatherBu: Sharon, this is a wonderful resource.

SharonWB: Thanks Heather!

HeatherBu: I'm going to add a passageway to this room from my classroom here, so the kids will have easy access to it.

SharonWB: That's great!

KatyD: there are lot of things to use

KymberlyT: yes

SharonWB: Kymberly ... go to NASA Kids Science News Network

SharonWB: Do you see this?

KymerlyT: yes

SharonWB: The 21st Century Explorer package was created with Johnson Space Center

SharonWB: The students in the videos are students from the Houston area

HeatherBu: really?

SharonWB: we auditioned over 100 Hispanic students in the Houston area

KymerlyT: This is wonderful.

HeatherBu: I'm about 70 miles northeast of Houston...my kids will be delighted!

SharonWB: We used students in the Harris County School District

SharonWB: their after school program

HeatherBu: Neat!

SharonWB: And ... when you go to the KSNN and Noticias Home pages, you'll find other programs that we've developed

SharonWB: For most KSNN programs, there's a Spanish twin program

KymerlyT: Do most programs offer a Spanish twin?

SharonWB: There are many more NASA resources ... these are just some that I've been using recently with teachers and students

KymerlyT: What a great resource.

SharonWB: In the "For Middle School Teachers" folder you'll see several programs that look at possible life on Mars

KatyD: very useful

KymerlyT: I am going to look at that one next.

SharonWB: NASA plans to return to the Moon (between 2018 and 2020) and then go to Mars.

HeatherBu wishes she could qualify

SharonWB: The "Alien Safari" site looks at extremophiles on Earth that might resemble possible life on Mars

SharonWB: Heather ..you could join us on Mars

HeatherBu: . o O (don't suppose they need an aging geek on one of the flights?)

KymerlyT: I was just looking at that one.

SharonWB: Jeff ... do you want to take us to the work you've created for your daughter's class?

KymerlyT: Thank you all. I am going to surf these resources.

SharonWB: Kymerly ... let me know if I can help you in the future.

KymerlyT: I certainly will.

HeatherBu: Thank you, Sharon.

KymerlyT: Thank you everyone.

JimHi: thanks

HeatherBu: I'm going to go to my classroom and add the passageway before I forget.

SharonWB: Thank YOU Heather. Please let me know if I can do anything for you or your students

HeatherBu smiles

HeatherBu: will do!

SharonWB: Thanks Jim ...

JeffCoo: I'm heading to my daughter's class... to show anyone who would like to see a 2nd grade science project.

KatyD: thank you very much

SharonWB: Derrick ... it will take us about a year to get the new math pieces up and running

SharonWB: but I'll add them to this site when they're ready

JimHi: I am working on class stuff tomorrow so I have some new sources of ideas

SharonWB: It's been great talking with everyone.

DerrickS: ok thank you again

SharonWB: Thank you!

BJ: thanks so much, Sharon...great job!

SharonWB: Thanks for your support BJ ...

SharonWB: Katy ... BJ ... Good night from this end

BJ waves goodnight