

**Title of Session:** Math Resources K-20  
**Moderator:** David Weksler and Jeff Cooper  
**Title of File:** 20070206mathk20  
**Date:** February 6, 2007

Room: Math K-20 Resources Group

**DavidWe:** Hi, folks

**DavidWe:** We are hopeful that Jeff is logging in, but...

**BJB2:** we usually start the discussions with introductions

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

**BJB2:** I'm a communications teacher in Pennsylvania and a Tapped In helpdesk volunteer

**FredK:** I am a literacy tutor in SE Oklahoma

**DavidWe:** I'm David Weksler. I'm in New Jersey, near New York City. I lead a different math discussion on math and technology. I am also one of the TI HelpDesk volunteers

**DeveetaH:** I am Deveeta a graduate student at The University of West Alabama

**DavidWe:** Thanks, Deveeta

**DavidWe:** Deveeta, are you interested in math education?

**DeveetaH:** Yes I am actually I am majoring in Mathematics Education

**ReneeH** joined the room.

**FredK:** Thermo dynamics

**DavidWe:** Hi, Renee. Welcome

**ReneeH:** Hello there.

**DavidWe:** Cool, Deveeta

**DavidWe:** We're just beginning, Renee. Would you introduce yourself?

**ReneeH:** like name, location, job(s)?

**DavidWe:** We know your first name is Renee

**DavidWe** grins

**DavidWe:** Deveeta, do you know about the Math Forum - [www.mathforum.org](http://www.mathforum.org) - big web site for math education K-20?

**DavidWe:** BJ, did you want to give some basic discussion suggestions?

**ReneeH:** I work as a K-6 Math Specialist in Riverside CA. I also consult, doing state training for program improvement schools, a couple other elementary schools, and one alternative ed-community day school charter

**DeveetaH:** I have used math forum a couple of times

**DavidWe:** Thanks, Renee

**BJB2:** I already told everyone to detach, David

**FredK:** I like the tools at math forum

**DavidWe:** I was part of the group people who began the Geometry Forum (which became the Math Forum) in 1992

**DavidWe:** Yes, that's a pretty comprehensive collection, Fred

**DeveetaH:** cool

**DavidWe:** So, I've been involved with teachers and helping them learn how to use the Internet and technology since then

**DavidWe:** I was with a group of high school teachers yesterday helping them learn about a piece of software - the Geometer's Sketchpad

**DavidWe:** So, Renee is a K-6 person.

**DeveetaH:** have anyone used math cramster before

**DavidWe:** Deveeta, are you focusing on any particular grade level(s)?

**DavidWe** isn't familiar with math cramster

**ReneeH:** I keep some math links for elem Ts and Ss at backflip

**DavidWe:** Want to say a few things, Deveeta, about it?

**DeveetaH:** secondary 7-12 and possibly junior college

**DavidWe** nods

**DavidWe:** I know Fred has seen this, but Renee, Deveeta have you seen the National Library of Virtual Manipulatives?

**DeveetaH:** math cramster is a website that offers a wide variety of information in science and math like notes, homework solutions,

**DavidWe:** Cool

**FredK:** Url?

**DeveetaH:** Unfortunately I have not

**DavidWe:** Do you know the URL for that, Deveeta?

**DavidWe** searches

**ReneeH:** Yep National Library is awesome.

**DavidWe:** <http://math.cramster.com/>

**DeveetaH:** thanks David

**FredK:** tk

**DavidWe:** Deveeta, have you seen the National Library of Virtual Manipulatives?

**DavidWe:** I'll post the URL:

**DavidWe:** <http://nlvm.usu.edu/en/nav/vlibrary.html>

**DeveetaH:** Unfortunately I have not

**DavidWe:** You might find that valuable

**DeveetaH:** I will add it to my existing list of mathematical websites

**DavidWe:** Organized by grade level (Pre-K -2, 3-5, 6-8, 9-12)

**DavidWe:** and by topics

**DavidWe:** Number & Operations, Algebra, Geometry, Measurement, Data Analysis & Probability

**DeveetaH:** I will check it out

**DavidWe** smiles

**DeveetaH:** sound really interesting

**DavidWe:** Do you know about the transcript you will receive from Tapped In?

**DeveetaH:** yes

**DavidWe:** Okay, just wanted to stop you from writing things down

**DavidWe:** If you don't mind me picking on you, Deveeta, was there something in particular you were interested in for this discussion?

**DavidWe:** I'm not sure if Jeff Cooper had anything planned for this discussion - I'm just filling in for him

**DavidWe:** Happy to talk about anything you all are interested in

**DavidWe** . o O ( goes for you too, Fred )

**FredK:** I have picked up a middle school student

**FredK:** who is doing circumference and area

**FredK:** of circles

**DavidWe:** trying to remember the formula?

**DeveetaH:** currently I am not teaching just doing some field observations

**FredK:** The formula is there, but using it is a problem

**DavidWe** smiles

**DavidWe:** Have you checked the Math Tools section of the Math Forum, Fred, for applets that address that topic?

**FredK:** I am working on it --no search yet

**DavidWe:** Here's a topic with 66 references for geometry of circles:

**DavidWe:** <http://mathforum.org/mathtools/cell/g,10.11,ALL,ALL/>

**DavidWe:** Any idea what he/she is having trouble with?

**CathleneB** joined the room.

**DavidWe:** Hi, Cathlene. Welcome

**DeveetaH:** what are some other websites that may be useful in secondary education

**FredK:** Our second session is tomorrow

**DavidWe** nods to Fred

**CathleneB:** Hi sorry I'm late

**DavidWe:** No problem, Cathlene

**DavidWe:** Would you introduce yourself to the group?

**CathleneB:** Hi group. Currently I'm not a certified teacher ... I let it lapse.

**DavidWe:** You DON'T need to tell us that part, Cathlene...

**DavidWe** smiles

**CathleneB:** I'm working on a reading in the content area course so I can get

**CathleneB:** certified again

**DavidWe:** Where are you, what you are interested in...?

**DavidWe:** Good luck with getting certified again

**CathleneB:** and my interest is in writing a unit about the game of Go

**DavidWe:** Oh, cool!

**CathleneB:** anybody here play it?

**DavidWe** likes that idea

**DavidWe** plays it VERY badly

**CathleneB:** I am so bad I don't have a rating

**DeveetaH:** I am interested in other websites that may be useful with secondary mathematics

**DavidWe:** Where in the world are you, Cathlene?

**FredK:** I just set up a spreadsheet for Go

**DavidWe** nods to Deveeta

**CathleneB:** Maryland

**CathleneB:** wow Fred

**CathleneB:** what does one do with a spreadsheet in Go?

**FredK:** put in x's and o's

**CathleneB:** I've got a website myself that you may find useful

**DavidWe:** Do you know the Math Archives web site, Deveeta, from U Tennessee Knoxville?

**DavidWe:** <http://archives.math.utk.edu/>

**DeveetaH:** thanks

**CathleneB:** I used to be the math ed specialist for the Maryland science center when we built the beyond numbers exhibit

**DavidWe:** Way cool

**CathleneB:** lotsa stuff on topology, patterns,

**DavidWe:** Let me share something I just thought of...

**DavidWe** nods

**RolandLO** joined the room.

**DavidWe:** Cathlene, have you ever been to the Textile Museum in Washington, D.C?

**RolandLO:** Greetings

**DavidWe:** Hi, Roland. Welcome

**RolandLO:** Thanks

**DeveetaH:** I have used maa.org, nctm.org, math.uah.edu/stat along with some other before

**DavidWe:** Want to quickly introduce yourself? Where you are, what you teach?

**CathleneB:** <http://www.gibgraphics.com/usefulstring/BNTofC.html>

**DavidWe:** That's great, Deveeta

**FredK:** tks

**DavidWe:** Looks very cool, Cathlene

**CathleneB:** no I haven't David

**RolandLO:** I'm Roland O'Daniel, certified 6-12 math, but currently a mentor coach for Striving Readers in KY

**RolandLO:** Math/Tech specialist

**DavidWe:** Thanks, Roland. Welcome

**DavidWe** smiles

**CathleneB:** another reading crossover!

**RolandLO:** Also master teacher on virtual high school grant in KY

**DavidWe:** I'm filling in this evening for Jeff Cooper who typically leads this discussion...so, I'm winging it, tonight

**DavidWe:** Very cool, Roland

**CathleneB:** If you play Go Roland, I'll share my reading unit for 5th graders

**DavidWe** smiles

**RolandLO:** Thanks David

**RolandLO:** Sorry Cathlene I'm not sure what you mean

**CathleneB:** David, I can imagine how textile museum would be a great math resource

**DavidWe** continues with his particular thread

**DavidWe:** The game of GO, Roland - do you know about it?

**CathleneB:** Go the game (not Go Roland, LOL)

**DavidWe** smiles

**RolandLO:** Not familiar

**RolandLO:** will check it out

**DavidWe:** Want to give a quick explanation, Cathlene?

**DeveetaH:** okay my main area is algebra, are there any resources strictly for area

**RolandLO:** At the textile museum, they do a lot with quilts don't they?

**DavidWe:** Yes, Deveeta, there are

**CathleneB:** suggest looking up Hikaru no Go animes and mangas. kids are really into it.

**CathleneB:** Go is a board game, very easy to learn very very hard to master

**DavidWe:** Indeed Roland, but also anything that is woven into rugs, carpets, hangings, textiles

**RolandLO:** Thanks!!

**CathleneB:** There are great web sites for it

**FredK:** Beyond Numbers is really neat too

**CathleneB:** Thank you!

**DavidWe:** So, the Math Forum collaborated with the Textile Museum to produce this web-based unit on pattern and symmetry:

**RolandLO:** Have been looking at quilts recently with some picture books

**DavidWe:** <http://mathforum.org/geometry/rugs/>

**CathleneB:** It isn't standing as an exhibit anymore, so I'm glad I made the web page

**DavidWe:** Some cool images and then some exercises for exploration

**DavidWe:** Take a look

**CathleneB:** We could have used that stuff for the exhibit!!!



**DavidWe:** That went up about 10 years ago, Cathlene

**DavidWe:** has been one of the most successful and popular units

**CathleneB:** I guess you're aware of (reaching far back into memory) Zaslowski, Crowe and ??

**DavidWe:** If you click on the URL and it doesn't come up, let me know

**DavidWe:** I don't know those names, Cathlene

**RolandLO:** Didn't come up

**CathleneB:** patterns in non western cultures

**DavidWe:** What browser are you using, Roland?

**RolandLO:** IE

**DavidWe** . o O ( you may want to hold down the CONTROL key and click... )

**CathleneB:** you'll see it in the beyond numbers bibliography when you explore it later

**DavidWe:** You can also change the preferences in IE to allow pop-ups from tappedin.org

**DavidWe:** Control key and click often works...

**DavidWe** nods to Cathlene

**CathleneB:** I love that I'll be getting a transcript of this. Wotta concept!

**DavidWe:** Deveeta, here is a web page with 237 items in the Math Tools section...

**JeffC** joined the room.

**DavidWe** waves to Jeff

**DavidWe:** Hi, Jeff

**JeffC** waves

**JeffC:** Sorry I'm late

**DavidWe** smiles

**DavidWe:** We're doing our best

**FredK** waves to Jeff

**JeffC:** darned kids! I just fed them yesterday too!

**DavidWe:** Go figure!

**DavidWe** smiles

**JeffC** wonders what the topic currently is.

**DavidWe:** Getting Roland to be able to open URLs

**DavidWe:** Roland...back with us?

**RolandLO:** I'm back

**DavidWe** smiles

**CathleneB:** so do we Jeff

**CathleneB:** smile

**JeffC:** have you accepted popups from this site Roland?

**DavidWe:** Sometimes, the pop-up blocker will kick you out of the chat

**DavidWe** . o O ( you may have just experienced that )

**RolandLO:** Yes working

**DavidWe:** good

**CathleneB:** When I get the transcript of this, do I get the part before I came too?

**DavidWe:** Did you get to see the Pattern and Symmetry web page?

**DavidWe:** I can send you my transcript, Cathlene, if you would like

**JeffC:** No Cathlene, but BJ will post a transcript within a week... or as David says.

**RolandLO:** no can you resubmit the URL I lost it when I bounced

**CathleneB:** sure would like it

**DavidWe:** Also, Bj gets this transcript into the TI archives which are accessible

**DavidWe:** Hang on, Roland

**CathleneB:** and then we'd better not say anything about people who are not here.

**DavidWe:** <http://mathforum.org/geometry/rugs/>

**RolandLO:** Celebrating!!!

**DavidWe** smiles

**DavidWe:** Jeff, feel free to take over or just add in to the present conversation

**RolandLO:** Can I be so bold as to ask what others do with their lives outside of Tapped In?

**DavidWe** . o O ( outside of Tapped In...lives? )

**CathleneB:** wonderful page re rugs and you say it's been around for ten years?

**DavidWe:** Is there life outside of Tapped In, Jeff, BJ?

**DavidWe** grins

**BJB2** thinks

**DavidWe:** Yes, Cathlene, I believe it went up in 1996 or 1997

**DavidWe:** There are some very nice user comments

**LenoiseR** joined the room.

**CathleneB:** Beyond Numbers went up in 1995 with participation by GW math department

**DavidWe:** Both from math teachers and from museum folks

**DavidWe:** cool

**CathleneB:** surprised we didn't cross paths

**DavidWe:** The funny thing was that the curator from the Textile Museum came up to Swarthmore

**JeffC:** The one site (and idea) I wanted to share today is the following:

**JeffC:** <http://www.eschoolnews.com/news/showStory.cfm?ArticleID=5861>

**RolandLO:** Gotta love that!!!!

**JeffC:** It's a story about "football math" ...and how teachers used fantasy football to improve interest in math for students... also intro them to Excel (although I'd consider using Google Spreadsheets so students could collaborate).

**JeffC:** Obviously the plan now would be to segue into Fantasy Baseball.

**DavidWe** smiles

**DavidWe:** Yes!

**RolandLO:** Football rules!

**RolandLO:** Sorry

**DavidWe:** Less than a month until Spring Training, I think

**JeffC:** Personally, I think such an idea would work for just about any grade level.

**DavidWe:** You are from basketball and horse state, Roland, right?

**RolandLO:** Yes love probability

**RolandLO:** Used to teach a half mile from the track

**LenoiseR:** hi all

**DavidWe:** Would you like to quickly introduce yourself, Lenoise?

**JeffC:** PBS actually has an articulated lesson plan for Fantasy Baseball Math at: [http://www.pbs.org/teachersource/mathline/lessonplans/msmp/fantasy/fantasy\\_procedure.shtm](http://www.pbs.org/teachersource/mathline/lessonplans/msmp/fantasy/fantasy_procedure.shtm)

**DavidWe:** oh, cool, Jeff

**CathleneB:** football is only played in the US and Brunei, the rest of the world plays meter ball (badabing)

**DavidWe:** Yeah, I know

**DavidWe** smiles

**LenoiseR:** Any new math tips

**RolandLO:** Does anyone else use picture books with their middle or high school math courses?

**DavidWe:** Do you know about the Math Forum web site - [www.mathforum.org](http://www.mathforum.org) - Lenoise?

**RolandLO:** I've been experimenting with the Rag Coat

**LenoiseR:** No do you find it helpful

**DavidWe:** Doesn't know about "The Rag Coat"

**FredK:** <http://www.funbrain.com/> has Math Baseball

**DavidWe:** I was part of the group of people who began it with a lot of money from the National Science Foundation, Lenoise

**DavidWe:** I'm a fan of it

**RolandLO:** A little girl is given a coat made of scraps by her mothers quilting group

**DavidWe:** Lots of stuff for math education, K-20

**DavidWe** listens to Roland

**LenoiseR:** Thanx

**DavidWe** smiles

**RolandLO:** goes through the story of how she struggles to go to school

**RolandLO:** because she is very poor

**RolandLO:** but opens up the idea of quilting as a math concept

**LenoiseR:** What do you teach David

**LenoiseR:** Grade level?

**RolandLO:** Gives females some extra access

**CathleneB:** Cathlene humming country song "coat of many colors that my momma made for me"

**RolandLO:** Yes very good connection

**DavidWe:** I teach teachers for the most part, Lenoise

**DavidWe:** Is this the book, Roland?

**DavidWe:** <http://www.amazon.com/Rag-Coat-Lauren-A-Mills/dp/0316574074>

**RolandLO:** one of my teachers brought that to my attention

**RolandLO:** Yes

**CathleneB:** <http://usefulstring.gjbgraphics.com/index.html>

**DavidWe** smiles

**FayeO** joined the room.

**DavidWe:** What age students do you work with, Lenoise?

**DavidWe** waves to Faye

**DavidWe:** Hi, Faye. Welcome

**CathleneB:** has every possible set of quilt patterns

**CathleneB:** John Rigby figured it out, I just applied the piece "clay's choice" to his work

**DavidWe:** cool

**RolandLO:** Thanks for the resource

**FayeO:** This is my first time "chatting" here. I entered a little early.

**CathleneB:** looking at the illustration in the pic makes me think of the four color theorem

**DavidWe:** Cathlene, do you know about the Bridges (Math/Art) Conference web site?

**DavidWe:** Welcome, Faye. Sorry we are close to the end of the discussion, be we're glad you are here

**CathleneB:** earl, earl earl!! u-r-l

**RolandLO:** How often do you meet here?

**DavidWe:** <http://www.bridgesmathart.org/>

**DavidWe:** Do you know about the TI Calendar of Events, Roland?

**JeffC:** I'd like to recommend that anyone who is in this room now, and not yet a member of the group to join. Simply scroll down the top frame and click the little "i" in the green circle in the Welcome to Math Resources box (the little "i" next to the link for the group). Then click the link to "join this group." You may then post to Discussion and will receive messages regarding this group.

**DavidWe:** This discussion is the first Tuesday of the month

**FayeO:** I thought the discussion began at 8pm?

**RolandLO:** Yes that's how I found out about this one

**DavidWe:** Where are you, Faye?

**DavidWe:** we began at 7pm EST

**DavidWe:** There is a science discussion that follows this one at 8pm EST

**RolandLO:** Anyone else interested in reading/writing in math class?

**FayeO:** Evidently I have the wrong time scheduled in the calendar.

**RolandLO:** Love to discuss read/write web application

**DavidWe** hopes Cathlene "counts" how many "earls" she has seen tonight

**CathleneB:** re bridges: I see Nat Friedman's name he's the guy that had the annual conference in Albany .. I guess it evolved to London... boy, I've been out of the loop

**JeffC:** One last link for people... these are my personal educational bookmarks, and there is a folder there for math sites. <http://www.mybookmarks.com/public/coops>

**DavidWe:** It has been at Towson University, Cathlene

**DavidWe:** The leader of it teaches there, now, I believe

**JeffC** has to run over to Science Resources group room now... it starts in three minutes and there will be a guest speaker.

**DavidWe:** Reza Sarhangi, Department of Mathematics, Towson University, Maryland, USA

**DavidWe:** Here's the mission statement:

**DavidWe:** <http://www.bridgesmathart.org/BridgesOrganizationMissionStatement.html>

**DavidWe:** Well, thanks, folks, for joining us tonight

**CathleneB:** Go see my toys page ... and platonic solids page

**CathleneB:** earl coming up

**DavidWe:** Sorry it was a bit harried...we appreciate your participation

**FredK:** Has anyone searched for Math at <http://del.icio.us>

**CathleneB:** I don't know it by heart

**DavidWe** can tell Cathlene about some cool platonic stuff

**RolandLO:** Just getting my feet wet at delicious

**FredK:** Lots there

**CathleneB:** <http://www.gjbgraphics.com/usefulstring/nobbly/nobbly.html>

**RolandLO:** Great application to the classroom though

**DavidWe:** If anyone has an interest in an amazing story of science and discrimination, NOVA, tonight highlights a remarkable American scientist, Percy Julian

**BJB2:** Thanks, David and Fred, for taking over leading the discussion

**CathleneB:** <http://www.gjbgraphics.com/usefulstring/school.html>

**DavidWe:** <http://www.pbs.org/wgbh/nova/julian/>

**CathleneB:** Percy Julian ... African American .... Baltimore?

**BJB2:** The next Math discussion will be on March 6

**DavidWe** smiles

**FredK:** It's been fun tonight

**DavidWe:** Thanks, Fred

**RolandLO:** Thanks all!