

Title of Session: K-20 Math Resources - ENC

Moderator: David Weksler

Guest Speaker: Gail Hoskins

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Room: After School Online Room

BJ: if you are not a member of the K-20 math resources group, I suggest you join now

BJ: to join the group click on the SEARCH tab in the top right of your screen

BJ: then click on GROUPS

BJ: enter K-20 MATH RESOURCES

BJ: when you get a match, click on the group name next to the green i

BJ: and then JOIN the group

CasieA: Is that all I need to do BJ?

BJ: yes, Casie

CasieA: Thank you.

BethHar: BJ, is this the room for the math resource discussion tonight.

BJ Nods yes to Beth

BethHar: Kay thanks!

BJ: Jeff Cooper leads this group...he should be here shortly

GailH: BJ, he sent a message that he had a real-time conflict. Has he since returned?

LeannA: Jeff is at his son's back to school night BJ

GailH: I am willing to help out in mean time. He had asked about DavidW doing so if available too.

DavidWe joined the room.

DavidWe waves to all

DavidWe: Hi folks.

GailH: Speak of David and he appears!

CasieA: hello

LeannA: There he is

DavidWe: Sorry to be a little late.

DavidWe: I'm David Weksler. Hi, Gail

DavidWe smiles

GailH: You were right on my cue.

BJ: ahhh...I didn't read that. OK, looks like you all have everything under control!

DavidWe: Something about those Windows computers...

BJ: let's start with introductions

DavidWe bows to BJ and thanks Gail

DavidWe nods

BJ: I'm an art teacher in Pennsylvania and a helpdesk volunteer for Tapped In

DavidWe: I'm David Weksler. Sitting in (I'm really sitting) for Jeff Cooper - the leader of this ASO session - K-20+ math stuff..

DavidWe . o O (I'm in New Jersey, near New York City. I used to work with the Math Forum and I distribute literature for Mrs. Gail Hoskins when she sends it to me in the mail)

GailH: I am Gail Hoskins, a former high school math teacher and K-12 math coordinator. For past 12 years I have been with Eisenhower National Clearinghouse (ENC) <http://www.enc.org> doing math and science work with teachers.

LeannA: Hi.. I'm Leann, I'm a math teacher at Rancho Bernardo High School in California

CaraL: I am a 6th grade math teacher in Escondido, CA. It's just north of San Diego.

CasieA: I am a college student in Ohio, studying to be a middle level educator in the math and language arts fields...a new member to Tapped In

ColleenSc: I am a High School Math teacher in Poway Unified District in San Diego CA

BethHar: Hi, I am Beth Harriss, a preservice teacher at the University of Houston.

DavidWe: Welcome, Leann, Cara, Colleen, Casie, Beth and Gail and, of course, BJ

GailH: Casie, at what school?

DavidWe wonders if that is everyone

CasieA: The University of Akron

GailH: OK, we are located at OSU.

DavidWe wonders what the new folks are interested in, with respect to math and math education

DavidWe: A little bit of what you are interested, people?

DavidWe listens

LeannA: I'm interested in lesson plans that integrate technology

CaraL: I teach a math support class, so my students take mine and another math class. They are all about 2 years behind in math.

DavidWe notes Leann's and Cara's interest

LeannA: Something real that gets kids excited

ColleenSc: forgive me, I am new to tapped in and just absorbing for a moment.

CaraL: Good call, Leann.

BethHar: I agree with Leann, something that will get the kids excited about learning math.

DavidWe: That's fine, Colleen - part of what we are here for.

CasieA: I interested in listening and learning what you all are going to say.... I still have a lot to learn regarding math and students

BethHar: Me too, Casie!!

CasieA: technology is definitely an interest

DavidWe appreciates Casie's interest in technology

BJ: I think Casie would also be interested in math and language arts connections

ColleenSc: I was wondering if there are any lessons out there that help students 'get' slope.

CasieA: Yes, that would also be helpful

DavidWe: That's great. I'm writing things down madly.

ColleenSc: Like going around the campus and doing some kind of integrated lesson using slope in a real and practical way. Perhaps with architecture or something?

DavidWe: Perhaps, we could start with a little about what you all know about things related to math and the Internet. I may lean on Gail Hoskins a bit to speak about ENC - as you all SHOULD know about ENC

DavidWe believes that

DavidWe: I like architecture, Colleen, and my sister's an architect and she taught me how to use architecture software

DavidWe smiles

GailH: Here is something about slope for Colleen and others to look at. Perhaps?

ColleenSc: You know how physics teachers can take their kids to an amusement park and make calculations. only stay on campus.....low budget

GailH: <http://www.figurethis.org/challenges/c33/challenge.htm>

DavidWe: Do you know about the Math Forum, in addition to ENC - <http://mathforum.org>

ColleenSc: Thanks

DavidWe thanks Gail for the URL

ColleenSc: no

GailH: Click on the blue link to go to it, but remember to come back here.

LeannA: This is my fourth year teaching Geometry and Algebra. I'm also working on a Masters in Education that focuses on technology... I am desperately seeking new creative materials and connections via internet

BJ: HOLD ON A SEC, PLEASE

ColleenSc: how do I keep it before it goes away? Wait for transcripts>?

DavidWe nods to Leann and encourages folks to listen to Gail

DavidWe: Hold on a secfolks....

BJ: wow, this conversation is going so fast...this will help

DavidWe nods to BJ

DavidWe: Perhaps...

BJ: go to the ACTIONS menu in the top right of this chat window

DavidWe: BJ can give a brief Tapped In tutorial about transcripts and protocol

DavidWe pauses

BJ: and highlight DETACH

CasieA: Will I be able to get a transcript since I am a new member?

DavidWe: yes, Casie!

DavidWe listens to BJ

BJ: yes, Casie. That is why I suggested you get a membership

BJ: did everyone detach their chat window?

DavidWe thanks BJ for her wise words

GailH will listen carefully to BJ for a bit.

CasieA left the room (signed off).

DavidWe: oops!

BJ: to detach your chat window go to the ACTIONS menu in the top right of the chat window and scroll down to detach

LeannA: I'm detached.. much better

ColleenSc: yes, I am detached

DavidWe wonders if people have been able to detach

DavidWe nods

BJ: That will make it much easier to follow the dialogue

CaraL: I'm detached

BethHar: Yes I am detached.

BJ: sorry for the interruption, David and Gail

DavidWe . o O (I'm also "unattached")

LeannA: thanks for the two links

GailH: And the transcript has all the links, so you don't need to take notes

DavidWe thanks BJ and wonders if she would like to add a few more things

LeannA smiles

DavidWe encourages BJ to add a few more things

GailH listens to DavidW and BJ.

CasieA joined the room.

DavidWe: welcome back, Casie

CasieA: sorry

BJ: I think you're good for now, David. I do think maybe you should take things one step at a time...

GailH: Welcome back Casie.

DavidWe . o O (no problem)

CasieA: I hit a wrong button

DavidWe understands that Casie hit the wrong button

BJ: Casie, did you see how to detach your chat window?

DavidWe listens a bit longer for BJ's directions

CasieA: I don't think so

BJ: what topics will you choose to cover, David? There were quite a few suggestions

DavidWe: As with many things, folks, you need a bit of orientation when doing things for the first time....right?

ColleenSc: righto

BJ: Casie, click on the actions menu in the top right of your chat window and scoll down to DETACH

LeannA: yep

CasieA nods

DavidWe prepares to respond to BJ's question as he scrolls back through the "detach" discussion

DavidWe: Everyone understands that as members you will receive a transcript of all of this by email after you logout?

CasieA: got it

DavidWe hopes that is clear

CaraL: yep

LeannA: Leann waits for David:)

ColleenSc: yuup

DavidWe smiles

DavidWe: Thanks, you all.

GailH wonders if having some idea of grade level of interest might help serve us all well.

BJ: and when a url is entered in the chat, click on the url to open a new window

DavidWe: So, let me give the baton back to Gail briefly to speak about the slope URL (web site) she started to introduce.

BJ . o O (sometimes you have to hold down the ctrl button to override blocking the window)

DavidWe: or wherever we were....

DavidWe wonders and scrolls back a bit

LeannA: 9-12 would help me

GailH: OK, Colleen I believe asked if there was anything we could suggest about slope.

DavidWe nods

ColleenSc nods too

GailH: ENC (which is the Eisenhower National Clearinghouse) is a wonderful place to help you find exactly what you need.

DavidWe agrees

GailH: When Colleen made her comment, I did a search (not pulling from my brain) and found a resource to share.

ColleenSc: Already made lessons with interactive activities?

GailH: May we all look at it-- it is supposed to be middle level.

ColleenSc: ok

GailH: Some are interactive, some not. This one isn't but I can do one of those next. OK?

LeannA: Will it kick me out of this room

GailH: Hopefully not!

BJ: it shouldn't, Leann. If it does, just log back in

GailH: If you click on the blue: <http://www.figurethis.org/challenges/c33/challenge.htm> you will see this, which is part of Figure This.

BJ: you might want to hold down the ctrl key as you click on the url

DavidWe . o O (if you are using Windows)

ColleenSc: I like it because we have ramps to our portables on campus here. We could definitely use that!

GailH: Try the getting started, answer, and think about these links under the main problem.

DavidWe would like to make a point of order....

DavidWe: Remember, people, especially if this is your first or second time in TappedIn. Some of us have been using it for more than 7 years...

DavidWe: Practice helps

DavidWe . o O (point of order is over)

CasieA smiles

DavidWe waits for some responses from Gail's suggestion about tackling the problem

CaraL: Are we supposed to be trying the intro problem?

ColleenSc smiles too

DavidWe looks to Gail

GailH: Perhaps looking around at it. What do you see? What would you do with it?

ColleenSc: after the getting started where it says to draw the steps then what should we do?

CaraL: It's a good tool for leading a discussion with the kids. I would have it on a VPU and have the kids work through the problem step-by-step.

GailH waits to hear what others think.

LeannA: Sorry, I was checking out the challenges (popcorn and volume)

DavidWe: No problem, Leann

DavidWe . o O (VPU = video presentation unit????)

ColleenSc: OK This is very cool. Thank you for sharing with us

CaraL: I'm not sure what it stands for...it projects what's on your computer to the screen.

CasieA: I agree with Cara....an also, the students will enjoy the hint option. :o)

GailH: Are any of you elementary?

GailH: K-6?

CasieA: 4-9

CaraL: I'm middle, but my kids are at an elementary level.

DavidWe recalls that Cara is 6th

DavidWe nods

DavidWe: What were you thinking, Gail?

GailH: OK, I am going to show you a part of the ENC site--one of our weekly Focus features.

GailH: It will have 3 articles.

DavidWe listens intently

GailH: There is navigation over on the right.

ColleenSc me too listening

LeannA: me too

GailH: So when I show you the url, you'll see the cover page.

GailH: Then pick one or two of the links on the RIGHT and scan. Spend maybe 2 minutes. Then let's reconvene.

GailH: <http://www.enc.org/features/focus/archive/ideaselmath/>

GailH listens to see if anyone is having problems. Otherwise read and I'll zip my mouth.

GailH watches for people to look up when they are finished.

IhorC joined the room.

CasieA eyes wide

GailH welcome, Ihor.

ColleenSc: Hi Ihor

GailH: Great. Cassie.

CaraL: Do these articles stay here, or do they switch? If they switch, how often?

GailH: What would you like them to do Cara?

DavidWe appreciates Ihor's struggle to join the discussion

ColleenSc: Gail, I looked at making math fun first. It reminds me of pizazz worksheets

IhorC: finally, what an adventure just to get here.

CaraL: I was just wondering if I should write down the URL mentioned in the article, or if I can refer back to the site later.

GailH: In a good or bad way"

ColleenSc: Then I looked at music... sort of elementary. I'd have to reflect to use in a high school

DavidWe reminds Cara that a transcript of all of this will come by email, later

GailH: I am teasing a bit, Cara. They will stay here all the time. We add a new "little Focus" every week. And they all live on forever in our archive.

GailH: What about the content? Is it useful for you as teacher?

CaraL: Thanks

ColleenSc: I like all the links we can explore

DavidWe listens to the responses to Gail's questions

ColleenSc: Question?

CaraL: I looked at the making math fun, too. I think my kids would really enjoy making up codes for each other.

LeannA: I went to high school topics and read how to create a caring environment in Math [

<http://www.enc.org/features/focus/archive/ideashsmath/document.shtm?input=FOC-003510-index>]

BethHar: I liked the Code activity that can be used. It looks like it would be fun for the kids.

GailH: Colleen?

ColleenSc: How do we sort through all this stuff and not 'waste' time exploring and get to some real use of ALL that is out there?

DavidWe appreciates the feedbacks from the group

CasieA: I skimmed the article on Algebra and reading...wow I never thought about doing things like that

LeannA: Oops.. that was a caring environment

DavidWe smiles - cool!

GailH: Colleen asked a good question. We all have different needs....

DavidWe hears Colleen's question about sorting through stuff

ColleenSc: Any tips?

GailH: and it isn't enough for something to be good or cool, we need it to meet our needs. Right?

IhorC: I'm all ears!

ColleenSc: right

LeannA: yep

LeannA: time is valuable too

CaraL: that's for sure

GailH: My suggestion is to have a few quality sites that you trust --- like ENC and Math forum and CIESE, for example.

GailH: And to visit them regularly and get their newsletters, etc.

LeannA: thank you

IhorC: and nothing else!

IhorC -)

ColleenSc: I like hearing what some one else has already tried and found 'true'.

DavidWe nods towards Colleen

LeannA smiles

GailH: Everything on the ENC site has been reviewed by K-12 math and science experts for appropriateness and good content.

CasieA: same here.. It's reassuring to hear something already works before taking the time to try it

IhorC: still even within the big 3 there is too much.

DavidWe agrees with Ihor

IhorC: for most teachers to absorb.

CaraL: that's good to know

ColleenSc nods

DavidWe: Ihor, would you introduce yourself, if you haven't already?

GailH: It doesn't mean it is what you are looking for, but at least you are in a big ocean with worthwhile fish to explore.

DavidWe likes fish

IhorC: Some scaffolding helps... sort of what Gail is doing.
ColleenSc agrees
GailH: ENC has a terrific site search.
ColleenSc: Thanks
DavidWe agrees
CasieA a lot of resources are nice
GailH: For example, Colleen earlier asked about slope.
IhorC: My name is Ihor. What else do you want to know?
DavidWe smiles
DavidWe . o O (short and sweet about CIESE)
GailH: Can someone name a different math content that you'd like to think about?
DavidWe listens to Gail's conversation about slope
ColleenSc want to know "How do you say your name?"
IhorC: CIESE does collaborative projects.
GailH: Say eye- hor
GailH: Right?
ColleenSc: thanks
IhorC: like the donkey in Winnie the Pooh
CaraL: part and whole relationships...like the meaning of fractions
DavidWe smiles
ColleenSc: E-or?
IhorC: Ehor
DavidWe . o O (David is pronounced...day-vid)
DavidWe . o O (in case anyone was wondering)
ColleenSc knee slapper
DavidWe smiles
IhorC: now I'm getting a grammar lesson from David!
LeannA: how about congruent triangle proofs
DavidWe quiets himself
DavidWe: good question, Leann
GailH: <http://math.rice.edu/~lanius/Patterns/index.html> has neat activities and a wonderful interactive applet about fractions.
IhorC: One of the collaborative projects I do is called the noon day project.
CaraL: thanks, Gail
IhorC: it is currently going on as I speak.
DavidWe: Oh, great. Good idea, Ihor
LeannA: what is it?
ColleenSc: What does that mean Ihor?
IhorC: We have kids around the world recreating the measurement of the earth project that Eratosthenes did 2200 years ago.
CaraL: wow
GailH: It is wonderful! Going on for years, right? at <http://www.k12science.org/noonday/>
CasieA: sounds interesting
IhorC: He measured shadows to determine the circumference
ColleenSc: sounds interesting! What grade level? and is there a lesson plan somewhere?

IhorC: gail just gave the address.

LeannA: listening

GailH: Here is a specific part of it <http://www.k12science.org/noonday/collab.html>

IhorC: also this week I discovered another site that does the same project.

DavidWe listens with interest

LeannA: thanks Gail.. you're a fast website library

GailH: But my point is that they aren't floating in my head. I ran back to ENC and searched for these.

DavidWe: But remember, you can always look at the web sites, later on

DavidWe agrees with Gail - knowing how to search is KEY

ColleenSc: I know but I was preparing for a task to do...just in case

LeannA: I knew you ran

ColleenSc smiles

LeannA smiles

IhorC: sunship.currentsky.com

CaraL: If you click "more options' on the ENC search, it helps to narrow down what you're looking for

ColleenSc: Gail, what did you use for your search word?

DavidWe: Colleen, did you find the page you were looking for?

GailH: And we have a site and a resource search.

ColleenSc: yes thanks

GailH: Want to see one other site, and then I will show you where I searched.

GailH: OK?

ColleenSc: k

CasieA: Thank you for introducing ENC.....it will prove very helpful in my future classroom

LeannA: Gail, any ideas on interactive lessons on proving two triangles congruent?

ColleenSc: maybe we can search that together?

GailH: Here are 13 for Leann on this one site that ENC links to

<http://www.ies.co.jp/math/java/geo/congruent.html>

DavidWe: Do you know about The Geometer's Sketchpad software, Colleen?

DavidWe . o O (java applets are good as well)

LeannA: Thanks Gail

DavidWe: Sketchpad is unbelievably good software, but you do need to acquire it

CaraL: whenever I do a search, it leads me to books I can buy. how do I get these great links you're finding?

GailH: We will learn to search for just web sites. Would you like me to show a step by step of how?

IhorC: it seems the best way to show that two triangles are congruent is to take one and put it on top of the other.

LeannA: We have the software David... I work with Colleen

CaraL: that would be great...Ha ha Ihor

GailH: The main ENC page is <http://www.enc.org/>

ColleenSc: A formal proof looks kinda different Ihor. lol

IhorC: it wasn't meant to be a joke. What level are doing congruent triangles? In high school?

DavidWe smiles

ColleenSc: I just backfipped ENC... great resource

DavidWe would like to mention a couple of things briefly - especially with respect to Geometry

ColleenSc: Yes, we are high school.... some of us

DavidWe: Take a look at the Geometry Problem of the Week from the Math Forum - <http://mathforum.org/geopow>

DavidWe: That's ALWAYS good

LeannA: okay

DavidWe knows the person who runs that project

BJ . o O (fyi, ENC (and Gail) have led several sessions in Tapped In. The transcripts are archived at www.tappedin.org/transcripts)

DavidWe thanks BJ that important point of information

IhorC: in geometry intuition plays an important role. Kids get thrown by vocabulary and forget the obvious.

ColleenSc agrees

GailH: Annie Fetter, who creates that Problem of the Week, wrote this article for ENC about those problems of the Week. It is at

<http://www.enc.org/features/focus/archive/special/document.shtm?input=FOC-003143-index>

LeannA: David... I read about some low achieving students getting their answers published in the POW forum and their self-esteem took off!

ColleenSc thanks Gail for archives

GailH smiles.

CasieA high five for Gail

DavidWe: Exactly, Leann

DavidWe: Homework gets put, not just on the school walls...but...

DavidWe: On the Internet - students realize this and it makes them a little more proud of their work

LeannA: thanks David and Gail for their help.

DavidWe: Thanks, Leann

DavidWe: Before we wrap up, a couple of things...

ColleenSc: yes?

DavidWe: Tapped In is a community: it depends on YOUR contributions

GailH listens.

LeannA: all ears

DavidWe: It really helps to come back to Tapped In from time to time, even if you can't come to every session

CasieA: sounds good to me.....being a new member, I've learned so much in this one hour

LeannA: Thanks for the invite. I signed up and got a reminder, that's helpful

DavidWe: It helps you to practice using the environment and also helps you understand that there are other people out there teaching close to what you are teaching in other parts of the state/country/world

JeffC joined the room.

DavidWe waves to Jeff

DavidWe: Hi, Jeff

JeffC waves

GailH hopes that when you come back, you bring a web site you might like to share too!

DavidWe . o O (OUR LEADER!)

CasieA: you all have given me great resources

DavidWe seconds Gail's suggestion

DavidWe: Thanks, Casie - we appreciate your interest

LeannA: will do Gail

CaraL: Thanks for all the great ideas...I can't wait to look more on ENC!!

ColleenSc hopes she can help out

DavidWe: Quick intro, Jeff - mention your bookmarks since I haven't

GailH: And it is fine to come back and say "I need help with this or that.!"

DavidWe appreciates Colleen's sentiments

JeffC: <http://www.mybookmarks.com/public/mathscience> ...is where the public links are for this group.

DavidWe: Yes, please ASK FOR assistance from other Tapped In members

CaraL: Thanks, Jeff