



STEM
TEACHER
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NETWORK

June Theme of the Month



Uncovering the Brilliance of Children: Science in Elementary June 8th at 5:00 PM EDT



K. Renae Pullen (Moderator), Dr. Carolyn Colley, Lesley Gates, Cindy Soule

Webinar Chat and Resources Mentioned During Webinar

Resources

- The Brilliance of Children and the Strengths of Educators Report
<https://nap.nationalacademies.org/catalog/26215/science-and-engineering-in-preschool-through-elementary-grades-the-brilliance>
- What are Phenomena - <https://www.nextgenscience.org/resources/phenomena>
- PPS Science Vision -
<https://drive.google.com/file/d/1sfKIUdbVUZGqXmxmqfM8NV75GFGWuYnw/view>
- Lesley's book spreadsheet -
https://docs.google.com/spreadsheets/d/1GLliwFTU2lzZqDvBAm_DRAHcdvKG9KqD106umvTNIIE/edit?usp=sharing
- Jamboard - https://stemtlnet.org/sites/default/files/2022-06/Jamboard_Brilliance%20of%20Children.pdf

Slides

- K. Renae - https://stemtlnet.org/sites/default/files/2022-06/Brilliance%20of%20Children%20Report_STEMLNNET_Participants.pdf
- Cindy - https://stemtlnet.org/sites/default/files/2022-06/CindySouleSlides_0.pdf
- Lesley - <https://stemtlnet.org/sites/default/files/2022-06/LesleyGatesSlides.pdf>
- Carolyn - https://stemtlnet.org/sites/default/files/2022-06/CarolynColleySlides_0.pdf

Chat

K. Renae Pullen : Welcome, Everyone!

K. Renae Pullen : Renae from Shreveport, LA

Sarah O : Hello!

Rachel C : Hi, all! I'm Rachel from Knoxville, TN. I'm so excited for today's session!

Jennifer K : Jennifer Kennedy, PK-3 STEM specialist from Athens, AL

Joni Falk : Joni Falk from TERC in Cambridge MA

Adrienne H : So excited to be here to listen and learn! I am a researcher at the Maine Math and Science Alliance.

Sarah O : Sarah Otterson o Paris, Maine

Beth P : Hi! I'm Beth Pesnell. I live in Manhattan, KS and teach elementary preservice teachers (undergrad and graduate) at K-State University.

Cindy H : Cindy from Education Development Center in MA, currently (still) working from home south of Boston

Mary M : Hi all, Mrs. Michael

Jenn B : Jenn Brown-Whale, Elementary Science Resource Teacher, Central Maryland

Lori G : Lori PK-4th grade STEAM Rockford, IL

Chris H : Hello from sunny Kansas! I'm a NSTA STEM Teacher Ambassador and former STEM Coordinator for my local school district. Eager to learn today!

Beth P : It's so exciting to see my Twitiverse friends! 😊

William B : Will Baur, Vancouver, WA science teacher, OpenSciEd facilitator

Elizabeth A : Hello, I am Elizabeth Alexander from Madera California

Ibidunni O : I am from Lewisburg, Pennsylvania. Previous American Sign Language Adjunct professor at University. Thanks for all.

VC G : Hello from Chicago, IL! 😊

Beth V : Hello! Will this recording be shared after the session?

Douglas W : Renae!

Douglas W : Miss you 😊

Beth V : Thanks!

Chris H : Beth, I'm in the Little Apple also!

Susan W : Susan Wray, Director of Elementary Science and Engineering, Oklahoma State Department of Education

Douglas W : I'll be in Layayette soon.....lets eat some boudin!

K. Renae Pullen : Hey Douglas!!! Great to "see

TJ M : How did you get a panel of ROCKSTARS like this?!?!?

VC G : Vanessa Galarza, Managing Editor, Amplify Science

Lara C : Lara Cabaniss from Concord, NC- STEM Coach for Cabarrus County Schools

Kathy R : Kathy Renfrew now in Milford, MA, transplanted after 40 years in Vermont and now @krsciencelady and many more hats including Sibme Viruall Coach, Science specialist for the Wade Institute for Science Education and National Math and Science Initiaitive

Ivana M : Hello everyone from Croatia, at 11 pm.

Lesley Gates : Elizabeth! So great to see you here!!

Jeanne N : Jeanne Norris, UW ISME Learning and Partnership Specialist. Working on STEM Teaching Tools and Climate Ed Tools. @SciJeanne on Twitter!

Molly T : Molly Talbot - Louisiana Department of Education Science Specialist

Elizabeth B : Elizabeth Barrett-Zahn, Editor, Science and Children, NSTA.

Kim Descoteaux : Visit <https://stemtlnet.org/> for more related resources and the online discussion

Page K : Page Keeley, President National Science Education Leadership Association (NSELA)

Amanda C : Greetings from southern Oregon! My name is Amanda (she/her) and I'm an Asst. Professor of Education at SOU. castoa@sou.edu

K. Renae Pullen : Hi Molly! I'm so glad you came!!

Molly T : Hi Renae! Happy to be here!

K. Renae Pullen : The Brilliance of Children and the Strengths of Educators Report
<https://nap.nationalacademies.org/catalog/26215/science-and-engineering-in-preschool-through-elementary-grades-the-brilliance>

Kim Descoteaux : Visit <https://stemtlnet.org/> for more related resources and the online discussion

Kim Descoteaux : This webinar is hosted by <https://stemtlnet.org> - Funded by NSF #1932761, Opinions expressed are those of the panelists and not necessarily those of the National Science Foundation.

Sue D : Connect to ELA and Math instruction.

Amanda C : Right on, Sue. We teach authentic STEM + ELA integration in our teacher preparation program. But changes must be made at the state and local policy level, too.

Kristi F : Who can we give credit to that quote or is it unknown?

Kathy R : I am all about integrating while honoring the integrity of each of the disciplines

Joni Falk : We will send a link to K. Renae's PDF in our newsletter tomorrow!

Ibidunni O : Types of supports can interact with the wonderful students in the class for important the STEM.

K. Renae Pullen : K. Renae's Report Presentation (PDF)-
<https://drive.google.com/file/d/1kKWICNVxw1oxPNydlWPI59thTxf8wmOC/view?usp=sharing>

Kathy R : Congratulations Cindy! Please join us in SEPA!!

Joni Falk : Good to see you Kathy!

Kristi F : Kathy - "integrating while honoring the integrity of each of the disciplines" I like how you worded that!

Kathy R : yes Joni..this topic is so important to me...this is my passion!

Kathy R : I first did “science talk” In 4th grade back in the early 1990’s (Im a dinosaur)

Ibidunni O : station coach?

Beth P : YES! YES! YES!!!!

Kathy R : Lesley is amazing!!!

Kathy R : carolyn is amazing!!! I love learning from all of these Rockstars!!

Sue D : I began in San Antonio with ESL students in 1991. Back then hands on learning was the best way for the students.

K. Renae Pullen : Kristi- that quote came from the report

Kim Descoteaux : The Brilliance of Children and the Strengths of Educators Report:
<https://nap.nationalacademies.org/catalog/26215/science-and-engineering-in-preschool-through-elementary-grades-the-brilliance>

Kristi F : Thanks, Renae!

K. Renae Pullen : 

K. Renae Pullen : I love that.

Ivana M : I am a teacher of chemistry and biology in Croatia as well. Elementary science I’m interested in because I like to explore through play. students take me away from given concepts and broader ideas.

Kathy R : YES! YES! YRES!

Kathy R : MMSA is such a wonderful organization.

K. Renae Pullen : What are Phenomena -
<https://www.nextgenscience.org/resources/phenomena>

K. Renae Pullen : I love Talk Moves to help kids make their thinking visible

Kathy R : Talk Moves makes me rthink of Chapter 3 in Ambitious Science Teaching

Kathy R : and TERC- great talk resurces- Inquiry Project

K. Renae Pullen : PPS Science Vision -

<https://drive.google.com/file/d/1sfKIUdbVUZGqXmxmqfM8NV75GFGWuYnw/view>

Jeanne N : I lovve Talk Moves. Easy to implement, high impact.

K. Renae Pullen : And it's free!

Ibidunni O : Interesting science exploration, teacher teachers them about fun science activity time. Part one. :o)

Jay L : As has been pointed out in various ways, these issues are part of larger systems problems. To address them, the entire system has to be examined. Components of the system can be within schools, professional development AND philosophies of and approaches to pre-service education, and education policy at various levels. A basic question that requires collective exploration is "What do we value?" and the work at multiple levels to realize those values. It also helps to envision the system as an ecosystem, where what happens in one part of the system has both positive and negative consequences for all or most other parts of the system and vice versa.

Kathy R : Thank you Cindy for sharing your passion and your school!

Elizabeth B : Thanks, Cindy!

Brooke T : Cindy is a rockstar every single day!

K. Renae Pullen : Contact info - soulec@portlandschools.org, twitter-@SouleCindy

Elisa S : Thank you!

K. Renae Pullen : Jay, you make such a good, comprehensive point.

Ibidunni O : When they ensure that innovate their vision and ideal about a new generation after our timeline of experiences. Part two. Amazing to Dr. Cindy. Thanks! 🙏

K. Renae Pullen : "It also helps to envision the system as an ecosystem, where what happens in one part of the system has both positive and negative consequences for all or most other parts of the system and vice versa." Love it Jay!

Ibidunni O : Tactile books?

K. Renae Pullen : Look at that data! 😊

Elizabeth B : And look at how much more they are writing!

Beth P : Those notebooks 😊

Kathy R : This is soooo cool! Data, notebooks ,,,,

K. Renae Pullen : Kids deserve the time to be able to write and analyze data in elementary science

Kathy R : not to mention scientists, sea ice and more

Kathy R : I want to have time to talk to each of these speakers to ask so many more questions

Joni Falk : Well please post on the post webinar discussion on stemtlnet.org

Ibidunni O : Diversity of the kids would love the counting any numbers with math to connect STEM outdoors. Wow! That is great! :o)

K. Renae Pullen : Great point, Ibidunni!

Sue D : Data is only useful when the students are able to give it meaning.

VC G : Just incredible to get students at this age to grapple with real data like this! They can do it with the right supports. Love this!

Abdel F : we don't need to wait a children until being adult to give his view about the surrounding, it's a false idea I think

Kathy R : Carolyn, thank you. I love the connections between the disciplines

Ibidunni O : I am ensure that, they create the types of excel with any STEM.

Elizabeth B : WOW! Great connections, Carolyn.

Carolyn Colley : Summer Zoom party?

Kristi F : Love that unit! Thanks for sharing!

Kathy R : Carolyn, I am into that Zoom party!!

Lori G : Great ideas from Carolyn and Cindy!

Kathy R : YEES

K. Renae Pullen : Lesley's Slides -

https://docs.google.com/presentation/d/1jcmLpqn9y8k4kgZ7WcpH_RrRMiiwGD00ROpufpzdAgk/edit?usp=sharing

Kathy R : YES! YES!

Kathy R : YES!

K. Renae Pullen : I love it, I bidunni!

Ibidunni O : Thanks, K. Renae Renae.

Carolyn Colley : Children's books can inspire simple investigations in so many ways! -- gateway to testing out questions or claims

Sue D : I use this with many lessons especially with young students. Iggy Peck, What Do You Do With an Idea . . .

Kathy R : and you don't have to read the whole thing every time

K. Renae Pullen : I think that's important to remember. Also, we should feel empowered to leverage the morphology of academic words strategically

Sue D : I love that book!!

VC G : Would be great to have a children's book list by NGSS as a resource.

Kristi F : Lesley, I am getting so excited about planning for next year as you have introduced me to some new books!

Carolyn Colley : Planning stop-think/jot-talk points in books is a great task to do as a teacher team. It's interesting to see where each teacher wants to pause and what they plan to ask.
Renae It always expands what I notice and attend to and gives me lots of back-pocket options to try on-the-fly if student conversations take me away from my original plan but still related to learning goals

Kathy R : Notice she's using those books with 5th graders

Carolyn Colley : The fluffiest pancake challenge LOL

Ibidunni O : Give the vocabulary units of the books very importantly them. They can build the vocabulary units at the level.

Kathy R : One of my favorites!

Jeanne N : Each presenter has been wonderful. I appreciate the rich details and nuance you were able to pack into a short amount of time. Thank you!

Ibidunni O : Reading standards are key factors for children to force writing their thinkers. That is wonderful readings.

K. Renae Pullen : Lesley's book spreadsheet is pure gold Book List Spreadsheet - https://docs.google.com/spreadsheets/d/1GLliwFTU2lzZqDvBAm_DRAHcdvKG9KqD106umvTNIIE/edit?usp=sharing

Kristi F : Phenomenal speakers!

K. Renae Pullen : Please contribute to the Jamboard - https://jamboard.google.com/d/16T5y9V1_rgV1QqbRUbRtY5B5n_OkME1ztsi2J_7Mt14/edit?usp=sharing

Lori G : Wow! Excellent!

Joni Falk : We will send the resources out tomorrow in our newsletter!

Kathy R : Lesley, thank you so much! I love learning with you!

Elizabeth B : Totally jam-packed and amazing! Thanks for all the resources too!

Kim Descoteaux : Please contribute to the Jamboard - https://jamboard.google.com/d/16T5y9V1_rgV1QqbRUbRtY5B5n_OkME1ztsi2J_7Mt14/edit?usp=sharing

Chris H : Thank you for a STEMazing presentation. I wish I was still teaching!

Arzu T : thanks to all the panelists for sharing

Brooke T : Thank you to all the presenters. You gave us so much to think about-resources, ideas, examples

Ibidunni O : Thanks for presenting! :O)

Elizabeth B : Thank you!

TJ M : Thank you all - truly ROCKSTARS!!

K. Renae Pullen : Please contribute to the Jamboard -
https://jamboard.google.com/d/16T5y9V1_rgV1QqbRUbRtY5B5n_OkME1ztsi2J_7Mt14/edit?usp=sharing

Alicia H : Thank you panelists. I came late but was able to get some info.

Beth P : Thank you all so much!! This was wonderful!!

TJ M : (need to run to an elementary school concert!)

Sue D : I can't open the Jamboard.

Sue D : I'm on my phone and the Jamboard app won't open.

K. Renae Pullen : I'm sorry Sue. We will share the PDFs

Brooke T : Absolutely, Brooke Teller, STEM Coordinator PPS, telleb@portlandschools.org

Carolyn Colley : @ThinkSci on Twitter

Lesley Gates : @LGates_science

Kim Descoteaux : Visit <https://stemtlnet.org/> for more related resources and the online discussion

Kathy R : Some people think I am a bit too noisy!

Cindy Soule : @SouleCindy

Ibidunni O : Thanks so much!