

Session Overview

On **December 7, 2022**, the Telescope Network hosted a Connect & Share webinar session on the topic *Equitable Literacy in Math and Science*. We had **52** people attend the session from **22** different schools or departments.



What is a Connect & Share Panel Discussion?

During a Connect & Share panel webinar, participants hear from BPS colleagues about what's working in their classrooms and schools. Presenters share a 10-minute presentation about an effective practice. Participants connect with peers from across BPS, get new ideas, and earn PD hours..

Credits
1.5 PD hrs

Why this topic?

This session topic was identified as part of the [Telescope Network Spring 2022 needs assessment](#). One of the major themes in the survey data was the want for equitable literacy in the context of science and math classes. Sample educator responses:

- "What does equitable literacy look like in secondary math and science classrooms serving different subpopulations of students (e.g. SEI, gen ed, special needs)?"
- "[I need] more resources for equitable literacy in science."
- "I would like to see how the math team integrates lessons with complex texts."

Breakout Room #1: Secondary Science

[Choosing the Best Evidence](#): Amanda Spence, (Biology Teacher, Charlestown High School)

[Using a Jigsaw to Build Literacy in the Biology Classroom](#): Sarah Benat (Biology Teacher, Brighton High School)

[Equitable Literacy in Science Through Class Discussions](#): Carolina Herrera (Grades 6 & 7 Science Teacher, Umana Academy)

Breakout Room #2: Secondary Mathematics

[Monteiro's Mistake](#): Alberto Monteiro (Mathematics Teacher, Brighton High School)

[Mathematical Literacy for ELD 1-3 Students](#): Marissa Soucy (SEI Mathematics Teacher, Charlestown High School)

[Data Talks: A Start of Class Routine About Data Literacy](#): Joseph Jean-Charles (Mathematics Teacher, English High School)

Breakout Room #3: Elementary Mathematics

[Which One Doesn't Belong?](#): Dennis Wright (Upper Elementary, Philbrick Elementary)

[Smarter Together: Building Student Discourse Through Complex Tasks](#): Michael Bortolussi (Upper Elementary Teacher, Mather Elementary)

[Hand Counting to Support Multiplication](#) *unable to attend*: Frances Ahearn (Upper Elementary, Philbrick Elementary)

Breakout Room #4: Elementary Science

[Development of Student Writing Through the Year in 3rd and 4th grade Science](#): Alyson Wall (K0-4th grade Science Teacher, Bradley Elementary)

[Building the Muscle for Experimental Design and Data Analysis](#): Michelle Carroll (5th/6th grade Science Teacher, O'Donnell Elementary)

[Using Disciplinary Literacy Practices in Science: A Pathway to Equitable Literacy](#): Holly Rosa (K1-4th grade Science Teacher, Perkins Elementary)

Participant Feedback

Comments from participants:

- *Hearing from multiple teachers with different ideas and strategies worked really well for me.*
- *All of the topics were very relevant and easy to incorporate into the daily routine. The timing of today's presentation was impeccable, that is so impressive!*
- *I will share materials with my team and will use activities I heard in the breakout room!*

Participant Takeaways

Based on this session, here's some things that participants want to try in their own classrooms/schools:

- *Using "observations and inferences" to guide students through recognizing patterns and analyzing data.*
- *I will use the find (& fix) the mistake practice that was shared.*
- *Taking away scaffolds within an assignment*
- *Re-acquainting myself with Jigsaw and then trying it.*
- *Incorporating more routines to include science news articles in class using a chunking approach.*
- *Incorporating more digital models*
- *I love the "which one doesn't belong"*

Next Steps

- [Telescope Events Calendar](#) for future PD sessions and social events.

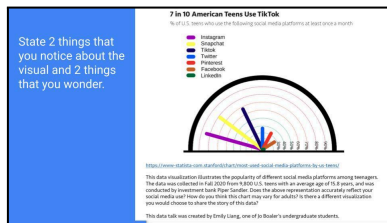
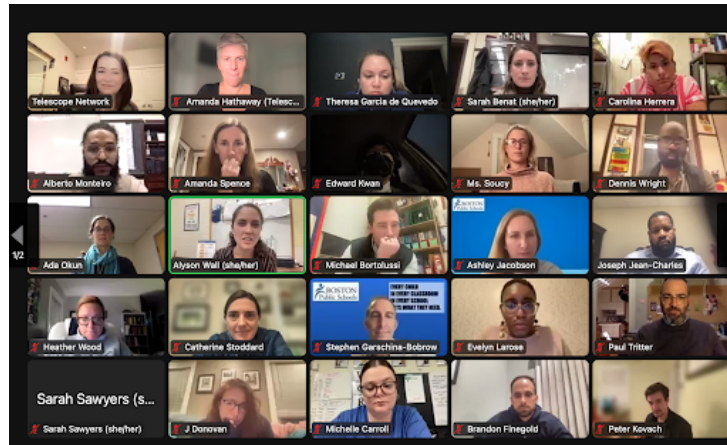
Additional Resources

Event facilitators: [Kristen Cacciatore](#) and [Amanda Hathaway](#).

Visit the [event webpage](#) or bostonpublicschools.org/telescope for more information.

Email us at telescope@bostonpublicschools.org.

- 📅 12/7 Connect & Share EqLit Math Sci Opening slideshow
- 📅 Equitable Literacy in Math and Science C&S (12.7.2022) Presenters and presentations list
- 📅 2022 Fall Connect & Share Flyer Promotional flyer



I tried these things

Differentiated texts with strong visual support.

Opportunities for students to independently read & process ideas about one topic.

Opportunities for students to exchange ideas with multiple peers. (Modified Jigsaw)

So with our **students**, we started to notice a shift...

More student ownership of the work
Students are becoming more self reflective of the learning process
Group accountability vs individual success
Less Math anxiety. Increased self esteem
Increased content language development

Initial Models- Amplify Gr.5

Phenomenon:
An ancient artifact was found describing the night sky.

Theories we need to prove:

- Sun is seen during the day, stars are seen at night
 - Sun is brighter
 - We don't always face the sun
- Each piece is different time of year.