Using Literacy Elements as a Cross-Curricular Bridge to Strengthen Science Teaching

Wednesday, April 14 11:00 AM - 11:45 AM ET  |  Speakers: Ashley Mathis and Jessica Morse

Literacy strategies, such as analyzing, discussing, and summarizing, can be utilized while reading science-based articles, authentic science research, journals, and textbooks. The use of these strategies provides a cross-curricular bridge that not only increases understanding but also increases a student’s ability to think critically. Our professionally trained STEM coaches know what it takes to effectively integrate literacy and writing into the science content. Using a constructivist approach, participants will experience hands-on learning that will give them a greater understanding of literacy in science.

Takeaways:

1. Work in a collaborative group to understand the importance of a constructivist approach.
2. Understand how constructivist strategies provide a cross-curricular bridge that not only increases understanding but also increases a student’s ability to think critically.
3. Work on an interactive activity to know what it takes to integrate literacy into the science content.

Always Time for Science in Early Grades with Streaming/Literacy Connections

Wednesday, April 14 12:00 PM - 12:45 PM ET  |  Speakers: Amber Gunner and Mindy Stroup

With the increased focus on accountability for science, we can offer a play- and literacy-based program for young learners. This hands-on science program supports child development and socio-development in a meaningful way. There is always time for science!

Takeaways:

1. Provides real-life applications for math and language arts;
2. Develops problem-solving and critical-thinking skills; and
3. Fosters curiosity and creativity.
Claim-Evidence-Reasoning: Scientific Explanations to Increase Student Voice

Wednesday, April 14 1:00 PM - 1:45 PM ET  I  Speakers: Susan Arnette and Maeve Green

Claim-Evidence-Reasoning (CER) is a way for students to explain observed phenomena in a scientific way. This structured approach allows students to use observations and data from an investigation. Students use critical reasoning to connect the claim and evidence together. CER is an acclaimed and highly successful instructional strategy that is changing how students understand concepts and write explanations for phenomena.

**Takeaways:** Teachers will explore how to:
1. encourage student curiosity and engagement in authentic science and engineering practices;
2. engage students in deeper skills of inquiry; and
3. empower students to lead discussions about scientific phenomena, based on logical protocol for using evidence to make a claim.

Claim-Evidence-Reasoning: Scientific Explanations to Increase Student Voice

Wednesday, April 21 2:00 PM - 2:45 PM ET  I  Speakers: Kristy Wheat and Michele Cozza

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Let's Talk Science: Strategies to Encourage Student Voice in Your Classroom

Thursday, April 22 11:00 AM - 11:45 AM ET  I  Speakers: Pam O’Brien and Kristan Buckman

In this workshop, we will utilize a simple yet effective talk process that can encourage students to more fully own their thinking and effectively communicate their ideas to peers. Join us in this interactive session to learn various talk strategies that support the NGSS Science and Engineering Practices, Argument-Driven Inquiry (ADI), and best-practice instruction for all learners!

**Takeaways:**
1. Setting the stage for student-centered talk success;
2. Shared experiences around the power of talk; and
3. Resources to support the implementation of science talk.
A New Awakening: Taking Care of the Social and Emotional Needs of Students and Teachers

Sponsored by STEMscopes by Accelerate Learning

Friday, April 23 4:00 PM - 4:45 PM ET  Speaker: Dr. Kenn Heydrick

This past year put a spotlight on the social and emotional needs of our teachers and students. Let’s step back and look through a renewed lens at what really matters. While good teaching is the hallmark of student success in the classroom, this can only happen when teachers and students are in a good frame of mind and position to care for one another. We’ll tackle this critical issue with relevant tools and suggestions. Learning from this past year can transform education forever.