

Kelli Bravo

What is the title of your leadership project?

Integrating Science Research Practices in Environmental Science Classrooms

Which option did you choose and why did you select the option/topic?

I chose the article option. I chose this option because as a Science Research teacher who has also taught regular science content classes, I recognize the level of inquiry that is innate in the SR course, that is missing and difficult to achieve in other courses. I wanted to share a lesson that I implemented in my AP Environmental Science classroom that allowed my students to participate in a SR project without having to take the course.

Who is your proposed audience? Which teachers will you serve with your PD and activities? What grades, subjects, and how many students do they teach?

My proposed audience is high school science teachers, particularly those who teach Environmental Science or Biology, most likely at an advanced or college level.

How will your project demonstrate integration of STEM in the classroom?

My article will outline an activity where students get to participate in high inquiry. The students are asked to create a question about a healthy vs unhealthy body of water, and make a hypothesis about what they think the health of the lake at the front of the school is. Students need to use a combination of math and science in order to create an experiment, do the methodology and analyze the data.

What outcomes or expectations do you hope to see for your educators?

I hope that teachers are inspired to push their students past the content they are required to know. I hope they find a way to use this lesson, modify it into something that works for them or create their own inquiry based project that fits their school/community. It is important for students to see how their content knowledge can aid them in answering questions through the scientific method.

How will you follow up with the teachers in attendance?

I will not be able to directly follow up with any of the teachers that read the article, but I will leave my email address and a note that offers for teachers who read the article and want to ask questions or share how they used the lesson to contact me!