

Title of Leadership Project

English Language Learners (ELL) and STEM best practices using the 5E method and NASA resources to enhance culturally responsive teaching pedagogy

Why did I choose this option?

I chose this to go out and explore and discover if I can offer substantial curriculum to my focused population and to blend it with STEM methodology.

Audience

I am scheduled to present a 45 minute PD session on the title. This is a County Wide Professional Development day, occurring on March 2, 2021, with participants throughout the LCPS district and schools. As of present, my session includes 25 LCPS teachers, with a further waitlist of full capacity.

Grades and Subjects explained:

I currently offered this session for 10-12 grades, because of the diversity of some pathways that are 2 years and 1 year programs and I have calculated this into STEM and ELL audiences, but do not know as of yet, the number of students it will reach. The evaluation and survey will trend the results.

How will the Project demonstrate integration of STEM in the classroom?

I have a 5E example of showing how this aligns to ELL students by breaking down each segment, and explaining how it can be aligned with our ELD Standards, using any subject. This is revolutionary because it is a new concept, and allows for STEM methodology to be combined. I further plan to show that 5E strategy emphasizes the steps that mimic the language development curve.

What Outcome or expectation do I hope to see for attending educators?

I hope to have more interest in how this strategy will work with every student, not just ELL students. This is a pedagogy that will fit every student, it's strategies overcome bias, gather more background knowledge of all students, and has allotted

time for deeper thinking and allows for extended time to communicate. Communication and practicing language is a perfect fit, for all students, not just EL Learners.

How will I follow up with educators, even though they were not attending?

I will supply a bit.ly survey, scaled to teachers that trend to how likely they are to use this strategy in the near future, how effective the presentation was, to end with how likely they are to adapt to using NASA resources for their class. I will provide examples of NASA resources to fit the example and take questions from attendees on how to adapt their lessons to this method.

I will follow up with each teacher that attended, and will present an opportunity for joining and/or creating a group that further facilitates this line of innovative inquiry based on the proposal.