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Professor Karen Woodruff

Practicum in STEM Leadership

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1. What is the title of your leadership project?

How To Effectively Integrate Real World Data into the Classroom

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

I chose Option 2: Virtual Professional Development- Pedagogical focus. I selected this option because I wanted a large target audience with whom I could share more broad, but useful ideas on how to incorporate data into the classroom. Science largely takes the focus with any STEM discussion and the “TEM” is forgotten. I felt this would be a great opportunity to share what I have learned with the forgotten members of the STEM community in my building.

3. 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 are my middle level STEM colleagues. They teach life and physical science, 7th and 8th grade level math, advanced algebra and biology, STEM and Sustainability and design(a tech course). They teach roughly 100 students each at any time during the year.

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

My project will highlight the benefits of integrating real-life data in the classroom, spotlight useful resources and then give brief examples of authentic integration. I would like to focus primarily on the data available through NASA, how to find it and strategies for incorporation.

5. What outcomes or expectation do you hope to see for your educators?

It is my hope that my colleagues will begin to incorporate data into their previously existing lessons or add components of data into their future lessons. It is also a desired outcome that teachers will share some of their newly augmented lessons within or outside their respective departments.

6. How will you follow up with the teachers in attendance?

I will follow up with the teachers involved via Google Form after the presentation.