Kara Anderson
PD Proposal
Spring 2021

1. *Mini Professional Development Project Title*

   Code Word: STEM

2. *School Name(s), Number of Educators Planning to Attend, Grade Level(s) (If you picked option #3, this is just your target audience for your manuscript).*

   I will offer the PD to all teachers at my building, however, it will be targeted towards the science, math, and technology teachers. There are approximately 400 students in grades 7 and 8 in my building.

3. *Justification. (Why did you select the option/topic?)*

   After sending out an email to the math, science, and technology teachers in my building to get their input on what they would like to see in a professional development, I decided on option 2. All of the teachers who responded stated they would like to know more ways to bring technology into the classroom, specifically with modeling in science and showing transformations in math.

4. *Brief Summary of Project (What will you do with teachers?).*

   I plan on starting the PD with a discussion on what integrated STEM is and how we can move from separate disciplines to a more integrated approach to teaching. I will then demonstrate how students can use their knowledge of basic, blockly coding and computational thinking skills we work on in STEM to model concepts in both science and math.

5. *How does the project integrate NASA assets and STEM content and/or pedagogy learned through Endeavor? Include links and descriptions of all NASA assets used.*

   I plan to show how they can use Scratch, Vidcode, and CoSpaces which were all programs shown in the Coding, Robotics, and 1:1 Devices course. Our technology teacher has demonstrated interest in what's next after blockly code, so I also plan to show him w3schools.com. This website includes simple tutorials on html, cascading style sheets, and javascript.

6. *What obstacles do you foresee in your professional development choice?*

   The largest obstacle I foresee is helping teachers see that STEM is not just another buzzword. When students use what they are learning in math and science and showing them the technology that is available and how engineers work to continually try to solve society's problems and meet its needs, they will be better equipped to be active participants in an ever changing world.

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

   After completing this PD, I hope the teachers walk away with a better understanding of how STEM should be integrated and not a stand alone class. Teachers attending this PD will be opened to a whole new world of possibilities with coding.

8. *How will you follow up with the teachers in attendance?*
   I plan on following up with the teachers in attendance during our monthly department meetings via a quick google form survey asking if they have implemented any of the ideas into their classes and if they would like any follow up something we covered in the PD.