

1. **What is the title of your mini STEM professional development?** Ending the STEM “Silos”
2. **Why did you select the topic?** This is the primary issue in my district. Many teachers find lessons marked “STEM” that they find via an Internet search, without really having a “lens” to determine if it is of quality or not. They do not have the tools to truly understand STEM, and find quality STEM resources out there.
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 audience would be primarily 4th, 5th, and 6th grade teachers – but I would encourage their administrators to attend as well so that they know what they need to look for. These teachers teach all subjects, which further outlines the need for them to be able to know quality STEM when they see it.
4. **What “general” science or mathematics concepts or learning goals will you and your materials address which can potentially replace other classroom activities?** Generally speaking, I would use this PD to highlight earth science concepts as well as true math data collection. Through quality STEM, we can erase a need for word problems and other content that doesn’t truly connect with students. When students collect their *own* data, they feel *ownership*.
5. **How and where do you intend to carry out your PD? How long will the session be? When (date) will it be held? Will teachers have access to computers?** Fortunately, I have been given a budget to provide STEM PD district-wide, and we have a set of Chromebooks via a cart we can have on-hand. Typically, our district provides PD on Wednesdays as a part of our “Wiser on Wednesdays” initiative. I will also post the Slides on our intranet system afterwards for others to reference in the district. I believe this session could be accomplished in three hours. The only availability room-wise is the end of April. I will be implementing it then. I plan to use the Jet Propulsion Laboratory (JPL) lesson bank, and highlight at minimum three different activities. That would be “Solar System Bead Activity,” “Roving on the Moon,” and “Modeling the Water Budget.”
6. **What outcomes or expectation do you hope to see for your educators?** I purely want teachers to know quality resources when they see it. I want them to know where to start to find the best resources.
7. **How will you follow up with the teachers in attendance?** I will use a July professional development date to follow-up with teachers, and pay them a stipend for attending.