

1. What is the title of your mini STEM professional development?

Instant Feedback - Engaging Online Programs for Formative Assessment through Chromebooks

2. Why did you select the topic?

Our district is running a Tech oriented PD day to address ITSE Standards and help familiarize our teachers with available options. We are in Year 2 of a 1:1 Chromebook program and our teachers have still not had a chance to explore options that are out their. I have been using many programs and plan to introduce Nearpod and Formative.com as methods of engaging students in lessons through the technology available.

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?

We are a small district with ~90 teachers and 900 students K-12. This will be an option for people to choose from and will be open to any and all teachers.

4. What "general" science or mathematics concepts or learning goals will you and your materials address which can potentially replace other classroom activities?

My learning goal will be for teachers to create a formative assessment that can be implemented in their classrooms immediately to better engage our 1:1 program. Formative assessment is a key to successfully shifting from the "Sage on the Stage to the Guide on the Side." These programs offer many options for instant feedback, whether pre-programmed or "on the fly." I will convert an existing lesson from the NASA JPL Education site (<https://www.jpl.nasa.gov/edu/teach/>) into a brief lesson through Nearpod to show how feedback tools can be integrated into a lesson.

5. How and where do you intend to carry out your PD? How long will the session be? When will it be held? Will teachers have access to computers?

I received permission today (2/28) to run a PD next Friday (3/8). I will have approximately 30-45 minutes. Teachers will have access to Chromebooks and personal computers.

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

Teachers will produce a formative assessment tool or convert an existing lesson into a Nearpod format with the expectation that they will use it with students within the next 2 weeks.

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

I will create a short survey that will be completed through the Nearpod and Formative platforms. I will follow up with a post-survey 2 weeks later to see if they have been able to implement their assessments and/or create more. I hope to offer a follow-up after school session, if I am approved.