

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

Turn your lesson 3D!

2. Why did you select the topic?

I selected this topic because I know a lot of my colleagues are having difficulty unpacking the new standards and keeping up with all of the changes coming.

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 is going to be fellow science teachers in my district at both the middle school and high school level. The subjects they teach can vary and they all have anywhere from 20-25 students.

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

My material will be about an ecology lesson I did with my students using a NASA resource. The resource is Global Sulfur Dioxide Monitoring homepage. <https://so2.gsfc.nasa.gov/> . I will talk about how I took the new standards to revamp my teaching to turn this lesson 3d. I will also show the participants NASA resources they can use in their classroom. We then will look at one of their lessons and see how we can modify the lesson to become three dimensional.

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 will carry out my PD at the district level. The session will be 2 hours. The PD will be on February 27<sup>th</sup> after school. Teachers will have access to chromebooks.

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

The outcomes for my educators is for them to understand what 3 dimensional learning is and how they can revamp their existing lessons.

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

I will tell them they can email me if they have any questions and post their lessons in a shared google drive folder. After the course I will ask the teachers to complete a google form explaining what they learned from the PD, what they liked, what they disliked and what more they would like to see in terms of PD.