

Endeavor

STEM Teaching Certificate Project



1. Title of my leadership project:

“Launch Your Lessons: Elevating Science with NASA Data”

2. This is a mini-professional development. Teachers will bring one of their own units and we will launch into a NASA data mining experience and they will be able to find and work NASA data assets into their own lesson. I chose this type of PD, because I always appreciate being able to take something of my own and improve it, as well as being able to take an existing lesson and modify it to align with NGSS. It is an iteration of the “make and take” PD model.

3. a. My proposed audience is high school chemistry teachers.

b. They teach 10,11 grade NYS Regents level, 11,12 grade AP, and 11 grade conceptual chemistry

4. The project will demonstrate integration of STEM in the classroom as the PD encompasses building the capacity with teachers for aligning their own lessons with NGSS while incorporating NASA assets for either phenomena or real data analysis.

5. I expect the educators to feel accomplished in the revamping of their unit plan to align with NGSS (without having to reinvent the wheel), incorporation of NASA data, and have the capacity to transfer this process with their other unit/lesson plans.

6. I will follow up with teachers through a google form survey.