

Elizabeth Allen
 Endeavor STEM Teaching Certificate Project
 9-12-18
 Mini-Proposal Chief Science Officer Program

1: Title	Chicken Little PD: Don't Panic, Map if the Sky is Falling
2:Topic	Converting generation glow into catching shooting stars in real time. Creating Learning and Leadership opportunities for students and teachers in rural Arizona communities. Topic was selected to bring natural resources of rural areas such as dark sky initiatives to upcoming student leaders.
3:Who	Organization: Verde Valley Chief Science Officers Program Educators Present: Nine grade 6-12 teachers and 24 CSO students signed up for October 26th/27th, 2018
4:Goals and Materials	Creating Supportive Resource List and Organization Communication tools using app development example from the Coding Robotics and 1:1 devices class for teachers, mentors, and students as a part of a STEM Panel from 9:30-11:30am. Example for grades 6-12 using smart phones with citizen science , Near Earth Object dark sky programs, and NASA Education resources for extension of land, water, and star mapping. Finch Robotics contact digital resources for schools and clubs might be a less expensive alternative to current programs or create opportunities for future coding integration activities across curriculum.
5:Location	Verde Valley, AZ
6:Anticipated Outcome	New leadership for rural area STEM clubs lead by students and new dark sky mapping applications to connect Chief Science Officer students, teachers, and mentors. Resource database of lessons for teachers to share with students as a google drive active link file.
7: Follow-up	Possible extension on Flagstaff schools in the Spring. Ask that attending teachers reply to participation email survey.
8:Qualitative and Quantitative Data Collection	Follow-up Survey using https://www.qualtrics.com/ on student participation with teachers and CSO students representing schools.

Resources

