

Elizabeth Allen
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Leadership Proposal

Mercury Orbitals and Mathematics

I would like to propose the Mercury Orbitals and Mathematics professional development activity to an arts high school as well as an after school community center. Both locations serve title 1 students that may have otherwise limited use of technology or resources at home. The instructors and teachers have a wide range of subjects to present to their learners. [The first non-profit after school center in Chandler i would like to present this professional development opportunity to is called "I CAN"](#). The premise of this community center was the simple act of playing basketball in a safe environment with caring positive role models. A mathematical approach through active game play on a basketball court using planets would enhance learning, engage kids in an alternative “around the world” basketball game using total physical response modeling.

The second location I would like to apply this same professional development concept would be at a title 1 Arizona Arts Conservatory high school. To enhance high school arts students integration into the sciences, the one hour professional development will provide teachers a creative lesson plan outline with Next Generation science standards using NASA resources. I hope to see both locations easily excite learners of various ages,abilities, and non-traditional settings to continue learning mathematics and astronomy concepts. After the professional development is complete I will request that instructors fill out a brief online survey as an outcome on the efficacy of the lessons.