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Project Proposal:

1. The title of our project is "Cross Curricular STEAM Implementation." *"Jump into the STEAM"*
2. We chose option 1, we are going to implement a professional development experience. We are going to use a lesson that we created during our Math Connections class which connects science and math standards as a way to reach our students in middle grades. While showing this sample lesson, we will also discuss how students benefit from using STEAM projects across content areas to enhance their learning experiences.
3. Our proposed audience will be all grade level math and science teachers from kindergarten to 8th grade, including special education teachers. We will also identify ways to bridge the gap with our special education population. We would like to work with teachers from any of these grade levels and content areas to have a learning progression in our schools/district. While our focus is on math and science, any content area could benefit. (Typical class sizes at these levels are 25-30 students per class.)
4. We will highlight the use of NASA resources as a way to make real-world connections for students and teachers in ways they may have never realized. Our sample lesson focuses on the geometry and physics of parachutes. The NGSS connects with physics (Forces and Motion) in Kindergarten, Third, Fifth and middle school grades. These same grade levels have common mathematical standards in measurement and geometry. However, the ideas we use could be beneficial to any grade level interested in addressing multiple curricula at once. We will integrate a STEAM lesson that we used to bridge science and math curriculum while also providing suggestions for ways to incorporate technology, art, social studies and language arts.
5. We hope that the educators who hear our presentation will realize that integration does not have to be an overwhelming process, but one that can be accomplished through intentional planning and preparation. We hope to provide successful ideas and collaboration that will lead to a learning progression that will eventually include more standards than just forces and motion. We will provide our teachers in attendance with access to a Google Classroom with the resources we used and allow for a cross-curricular community of practice.
6. We will stay in contact with these teachers through the google classroom for updates and questions when the need arises. Ultimately, we would like for it to become an ongoing discussion board and a community sharing center.