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SCED 545

September 15, 2021

Option 2: Virtual Professional Development

Pedagogical Focus- Draft

## **Field Trip to Mars**

**Topic Selection:** I chose to facilitate learning around a technology platform because more than ever, teachers are needing ways to either push out content virtually or collect feedback from students using online resources. Teaching has changed over time and using technology appropriately to help support learning outcomes is a beneficial way to allow students learning opportunities that they may not receive from reading an outdated nonfiction text.

**Integration of NASA Content:** I chose this title because I would like to facilitate professional development around a technology platform titled, “Book Creator”. This platform has a wide variety of ways that it can be used to enhance learning, and using the research from NASA’s Mars Exploration Program supports the work related to Mars’ investigations and continuous events and discoveries on Mars. Students can use Book Creator to take a virtual field trip to Mars and even write a research paper or study current events using this creative platform.

**Audience:** My audience will be teachers in our building who teach kindergarten through fifth grade, autism directors, an instructional coach, the special education team, and the specials’ teachers. We have 120 students who attend our school. All of our teachers teach every subject area; reading, writing, science, math, and social studies. The Autism Directors support the Center Program at our school and differentiation is key to support these students who are often mainstreamed in our regular education setting. We are a very small school and continue to find technology resources to elevate our instruction as well as enhance the way in which students can learn and deliver understanding of content.

**Math Concepts:** Common Core State Standards for Mathematics  
4.MD.A.2., 3.OA.A, 5.NF.B (I will explain these in detail for final)

**ISTE Concepts:** Creative Communicator: 6c Students communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models, or simulations.6d Students publish or present content that customizes the message and medium for their intended audiences.

**STEM Concepts:** Engineering (Modeling), Math (scale), Science (Earth, Mars) \*I will go through every standard in the final draft

**Session:** 45 minutes. Based on a recent survey from teachers, Book Creator was a technology platform teachers wanted to learn more about. The PD session will be advertised through emails and a tech website.

**Surveys:** Teachers may be asked in the pre-assessment survey information pertaining to what they already know about Book Creator. What are the tools used in Book Creator and what possible lessons might be developed for students to participate in using the technology platform? The post survey may ask questions related to what they found as most valuable during the PD session, how they might use Book Creator, or whether they would like an additional PD to develop another lesson using Book Creator.

**Outcomes:** I would love to see teachers collaborate with one another to develop lessons or assign projects to students using the tools in Book Creator. I believe it's important to continue to model tools using new technology platforms. As a way to follow up and engage teachers, I would continue to send out presentations or exemplars using the tools to help teachers develop new ideas around how to use the platform. It may be fun to have a Book Creator share space on our technology website so that teachers can share projects with one another.

**Data:** I plan to conduct a survey at the end of the PD and allow teachers to share presentations with one another via a website or sharing session, if that is noted as desirable by staff.