

## **Mini proposal**

### **Title: Let's explore STEM resources**

Reason for selecting the topic: I got to learn about the abundance of meaningful authentic data and lesson plan activities provided by NASA for educators of all grades for teaching math and science content with the purposeful use of technology and engineering design. I used the ideas and activities into my class projects and observed the manner in which it enhanced and improved learning in my students. Through this project, I want to share my learning and make my fellow teachers aware of the wonderful NASA resources that they can use easily in their classrooms.

### **Proposed Audience:**

I am currently on a break so I can't do the regular PD session. I am planning to record my PD sessions on screencast and would send the details to few fellow educators I am in touch with. They are spread across the globe and all of them teach various subjects at elementary level from K-5. I am not sure if this idea will be successful but it's the best I could think of.

### **STEM concepts applicable**

As part of my course 'Math connections in STEM classroom', I incorporated a lot of STEM resources in my regular teaching and I implemented a STEM focused PBL in my Kindergarten classroom. While researching for the same, I found there are few STEM resources available for young learners or they were either too easy or too difficult. I took on the challenge and designed a very interactive and challenging project for my class which was very well received by my target group. I replaced the usually used techniques of using worksheets, manipulatives, rote counting with STEM activities for teaching concepts of shapes.

### **Plan**

I am planning to record two PD lessons on screencast each about 20-25 minutes. I plan to introduce my agenda and before we explore STEM resources, I would ask them to record the number of ways they can teach the concepts of Shape Geometry in Kindergarten. I would send a record sheet where they would fill in the response and send it back to me in 3-4 days. After consolidating the responses, I would record the second video where I would share the results and would also share how I did it the STEM way and what resources I used. I do have pictures and responses saved from my project which I would put in my presentation to give a clearer idea of how it looked. I would then ask them to fill out the feedback questionnaire and mail it to me which I will consolidate.

### **Outcome expected**

Through my PD session, I hope to motivate my fellow teachers into trying and incorporating STEM elements in their regular teaching practices.

**Follow up**

I would follow up through emails and messages with the teachers.

**Submitted by:**

Parul Vohra