

## **Project Proposal: STEAMify Your Lesson!**

I work in the Los Angeles Unified School District (LAUSD). LAUSD announced to all schools that there would be a pilot program for schools to become STEAM certified. I signed up my school to see if we would qualify for the certification and we were offered the opportunity. After discussing it with staff we began the process. I am leading my team by attending informational sessions and by joining a team of STEAM leadership group of teachers who will meet to create material and resources that would help schools who decided to go through the process. I also, volunteered to lead professional developments that would include STEAM concepts. One of the professional developments I will implement is called, How to STEAMify Your Lessons.

I selected this topic because my school is going through the STEAM certification program and many of my colleagues need help identifying what it means to include STEAM in their curriculum. One of the requirements to become certified is the implementation of STEAM in all subject areas. This is not happening in all classrooms due to lack of knowledge of what STEAM means and what it looks like in the classroom. Many of them did not understand how to implement STEAM in their subject area especially if they were not a science or math teacher.

My audience will be all the staff at my school. I served all teachers', assistants and admin at my school. The grade levels will be sixth through eighth grade. The subjects include ELA, math, science, history and P.E. I currently teach 140 students. I have three eighth grade science classes, one eighth grade ELA class and a mix of eighth, seventh and sixth grade in my theatre class.

A learning goal I will address during this professional development is what it mean to be a STEAM school. I will also demonstrate how to plan a STEAM lesson in all the different subject by showing sample lessons in each subject area. Then I will introduce a collaborative template I created. This template helps guide and allows teachers to plan and collaborate on units or lessons in a cross curricular way that includes STEAM. I will also be introducing the engineering

cycle to help guide teachers into implementing STEAM concepts.

I intend to carry out my PD at school on a Thursday which is when my school has PD. This PD will occur before the certification process is due. The session will be an hour and a half. The professional development will require all staff to bring a laptop. I will have all of the documents and presentation be digital. I will also ask for an a representative from all subjects for advice and feedback before presenting to all staff. This professional development will begin with a presentation and then it will turn into a collaborative space where teachers and staff can work on applying STEAM into their lessons.

The outcomes I expect to see for my educators is a greater understanding of what STEAM is and how to adapt those concepts into their daily lessons. I hope to see collaboration between subjects that also adapt STEAM cocepts. There will be a follow up professional development to see check in with each other. It will be an opportunity to problem solve if there are any difficulties and it will also be an opportunity to share what has worked. After the PD there will be a survey and some interviews to help gage follow up PD's are needed. In addition to that there will also be classroom observations conducted by colleagues within the same grade level. The final piece of data collected will be our collaborative portfolio to become a STEAM certified school and whether we pass or not.