

## PROPOSAL: The rise of STEM and STEAM in School.

Ahmed atyah alsahimy

Gifted teacher

### The idea

The idea behind stem and steam is to encourage students to develop problem-solving skills in real life situations.

### STEM and STEAM

This includes: seeing how they are able to create a problem, predict what may happen, research the stem behind it, plan and design a solution, solve the problem using trial and Error and responding to whether they have managed to complete the project and what challenges arose during the process.

By doing this on a regular basis it is expected students will be able to solve real life challenges they come across using the techniques they have used in stem. Critical thinking/higher order skills are likely to be employed on a more regular basis allowing students to become better creative, critical thinkers.

Stem/steam processes allow students to make more informed choices through having the ability to look at problems in several ways so that the best choice can be made.

### Questions:

- How has the stem process allowed you to solve problems more easily?
- What parts of the process have been most beneficial?
- What was most challenging when you first started using stem?

### STEM and STEAM

My proposal is "Does incorporating/embedding stem/steam within the school allow students to develop higher order thinking skills that allow them to be creative thinkers, autonomous learners and solve real life issues?"

I propose to incorporate the stem/steam processes and understandings into a variety of subjects to see whether student's problem-solving skills increase especially the higher order thinking skills.

