

STEM Unit 1

The STEM unit, known as science, technology, engineering, and math, is a great way of critical thinking and problem solving. When you incorporate these subjects together it is easier to learn when all the classes have the same, or near the same subject. STEM is the basic knowledge needed to make life easier for mankind with building, teaching, inventing, etc. In my three classes: math, science, and designing in engineering, we use all principles learned in our classes together for projects and other class work assignments.

In my math class, we learn about circles, spheres, and formulas to complete problems given to us about circles. When you work with circles and formulas, you have to know dimensions of most circles before you can even start the problem. If you incorporate the dimensions you need for the engineering portion of STEM, the circle part is not as hard as it would be if we didn't know anything about dimensions to help us. A big subject we do right now in math is conic sections, which is more ways of working with angles and arcs; we had to learn the different arcs, and their measures.

Also, I learn about atoms, subatomic particles, and the basic understanding of an atom. In science, different atoms have different atomic structures and charges. In order for us to be successful on the tests we take in there, we must know all of the charges. We must know how to find atomic mass and number, etc. With this last STEM project we did, we were asked to make a 3-D model of an atom given to us. Using my basic understanding for circles and design processes, I was able to build a nice 3-D model of a Magnesium 24 atom.

Finally, in my engineering, or designing class, we use a CAD system to design certain objects. I have built many things in my engineering class, like an extruded rectangle, an oven rack, a candle stick, etc. For this last

joint project we did, I was asked to design my atom assigned in science, and built it to certain scale. I have to admit it was a bit of a challenge but a fun activity for me. After sketching it, building it, and printing it out, I was very happy with the outcome of my atom project.

In conclusion, this STEM idea was just brilliant for all the students in it. We are able to learn the same standards but in a more professional yet fun way. We are able to learn the three basic steps to make life easier all in one unit. You critically think, solve problems, and work together to complete all the tasks given to us every day. Maybe one day, we can use these skills to make the world a better and easier place to live.