**Mrs. Elder’s STEM Class**

Syllabus and Introductory Letter

Welcome to STEM 1. This is a semester course in which you will learn and use skills in order to prepare and equip you for your future. Many of the skills you use are relevant to in demand careers. This program is a CTE based program, which means that it is a career technical education learning program.

This course is separated into three main parts: modules, project based learning, and focused skills training.

Part 1: Modules

The module portion of this class is an online program in which you will learn, be assessed, and practice hands on skills in many of the following fields:

* Alternative Energy
* CNC Manufacturing
* Electricity
* Electronics
* Energy, Power, and Mechanics
* Engines
* Home Makeover
* Ideas and Innovations
* Immunology
* Money Management
* Robots
* Simple Machines

The modules will be 40% of your overall grade each nine weeks.

Part 2: Project Based Learning

The project portion of the class will include a variety of STEM projects that will be created, explored, researched, and presented. This list includes some of the possible projects or tools that will be used. Some projects will take a few days to complete while other projects may last a couple weeks.

* Technology in Careers
* How building has changed?
* Alternative Energy
* 3D printing
* Laser Engraving
* CO2 powered cars

The projects will be 40% of your overall grade each nine weeks.

Part 3: Focused Skills

Focused skill days are each week that is focused on specific skills and concepts that are important for students. These will include engineering, science, computer, and math skills that will be completed by using hands on labs and activities.

The focus skills will be 20% of your overall grade each nine weeks.