Ms. Regina's Physics Content Calendar Outline

Below is a list of the content we will be covering during the school year. **Please keep in mind that units may shift and we will potentially add to this list

Unit and Project Area	Content Learned
Measurements/ Engineering	-Importance of engineering failures
Design Process	-Scientific Method
	-Define Physics
August - September	-Basic Measurements
	-English units
	-Metric units
	-Intro to scale drawings
	-Intro creating engineering drawings
	-Law of Conservation of Energy
Energy & Forces	-The 7 types of energy
November & December	-Energy transformations
*Sketchup and 3d modeling	-Work
	-Power
	-Forces
	-Newton's Laws
	-Acceleration
	-Renewable Energy
	-Nonrenewable Energy
	-Elemental components
	-Defining electronics
Electronics	-Basics of an electron
January - February	-Creating a basic circuit
	-Solving for resistors in a V=IR
	-Understanding resistors in series
	-Understanding resistors in parallel
	-Solving for complex circuits
	-Understand basic capacitors
	-Designing simple circuits with given voltage or desired
	-Drawing engineering schematics of self designed
	circuitry
	-Reverse engineering
Fluids/ Pressure/ Force	-Define fluid flow
March-May	-Define forces
*Build time!	-Define pressure
	-Basic understanding
	-Solve for formulas of pressure and forces
	-Buoyancy
	-Bernoulli's Principle