**Sprint 0 (May 9, 2019 - May 16, 2019)**

**Project Goal** - Create a physics calculator, to allow users to enter known variables, and automatically solve all equations possible, with those known variables.

**Product Backlog**

**Project Requirements (User Stories)**

1. "As a physics student, I need to be able to enter the variables I know, and have the calculator solve for any other variables that can be derived from the known variables."

* List of variables and formulas
* GitHub/Trello
* Recursion
* Store variables in array
* Algorithm to solve formulas
* Come up with application name
* Set up remaining sprint schedule
* List of references, sources used

2. "As a physics student I need to be able to visually interact with the software, in the form of a GUI."

* GUI

**Nice to Have Requirements**

3. "As a physics student, I would like to have access to a user manual, or help section, to explain how the program works."

* User manual/help button

4. "As a physics student, I would like to be able to enter variables in multiple different units."

* Unit Conversion

5. "As a physics student, I would like to be able to enter variables from multiple different areas of physics."

* Expanded list of variables and formulas - menu to choose between kinematics, gravitation, E-M, etc.

**Sprint 1 (May 17, 2019 - May 23, 2019)**

**Product Backlog**

**Sprint Requirements (User Stories)**

1. "As a physics student, I need to be able to enter the variables I know, and have the calculator solve for any other variables that can be derived from the known variables."

* List of variables and formulas
* GitHub
* Algorithm to solve formulas
* Come up with application name
* Set up remaining spring schedule

2. "As a physics student I need to be able to visually interact with the software, in the form of a GUI."

* GUI