Physics

Mr. Fackrell

Room: G164

Physics: Algebra-Based Course Overview

This is an algebra-based, introductory (college-level for AP) physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

Physics Course Content

The course is based on six Big Ideas encompassing core scientific principles, theories, and processes that cut across traditional boundaries providing a broad way of thinking about the physical world. The following are the six Big Ideas covered in this course:

- *Objects and systems have properties such as mass and charge. Systems may have internal structure.*
- *Fields existing in space can be used to explain interactions.*
- *The interactions of an object with other objects can be described by forces.*
- *Interactions between systems can result in changes in those systems.*
- *Changes that occur as a result of interactions are constrained by conservation laws.*
- *Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the description of other phenomena.*

Physics Notebook

Every Student will maintain a notebook and have it with them in class every day. This notebook is a central place where data, language and experience work together to form meaning for each student. It will consist of daily notes that reference all class activities, but will also be a place for students to record new ideas, post questions, reflect and make self-evaluations. Parents will also be invited to participate in this interactive resource

<u>GRADING POLICY</u> **A**(90%-100%), **B**(80%-89.9%), **C**(70%-79.9%), **D**(60-69.9%), **F**(0%-59.9%)

Test & Quizzes ……..……...55%

Daily Assignments & Labs……..……... 45%

Please feel free to email with any questions or concerns:

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