

AP Physics 2  
Summer Assignment  
Mr Hendrickson

Read and take notes

***Physics of the Future: How Science Will Shape Human Destiny and Our Daily Lives by the Year 2100***

By Michio Kaku

3-5 page essay-Topic:

Critically analyze at least 3 predictions made by the author for the year 2100. Justify whether or not you feel these predictions will hold true in the future. Using the format taken by the author, derive your own prediction for Physics in the year 2100. Explain.

Review the following topics from AP Physics 1

Be prepared for a quiz on the first day of class

Significant Figures

Scientific Notation

Addition, Subtraction, Multiplication, and Division using Scientific Notation

Metric System

Metric Prefixes (Nano, Micro, Milli, Deci, Centi, Kilo, Mega, Giga)

Metric Conversions

Dimensional Analysis

The Scientific Method

Linear Motion

Projectile Motion

Forces and Free Body Diagrams

Uniform Circular Motion and Gravitation

Nonuniform Circular Motion

Work, Energy, Power, Momentum

Simple Harmonic Motion

Electricity