Physics Syllabus

Mechanics:

Mathematics in Physics  **(2 weeks)**:

-SI Units

-Significant Figures

-Scientific Method

- Scientific Notation

-Graphing Techniques

-Precision/Accuracy

Kinematics **(4 weeks)**:

-Speed/Velocity

-Acceleration

-Newton’s Laws

Statics (Forces) **(4 weeks)**:

-Vectors

-Vector Resolution

-Free Body Diagrams

-Inclined Problems

-Static and Kinetic Friction

Projectile and Circular Motion, Law of Universal Gravitation **(3 weeks)**

Momentum, Impulse, Energy, and the Conservation of **(3 weeks)**

Electricity and Magnetism **(6 weeks)**

Waves  **(5 weeks)**

Modern Physics **(2 weeks)**