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## **AP Polycet Syllabus**

### Physics

- Heat
- Units and Dimensions
- Elements of Vector
- Power, Work, and Energy
- Kinematics and Friction
- Reflection of Light by Different Surfaces
- Refraction of Light at Plane Surfaces
- The Human Eye and Colourful World
- Electric Current
- Thermodynamics
- Electromagnetism
- Modern Physics
- Simple Harmonic Motion and Acoustic

### Chemistry

- Atomic Structure
- Classification of Elements- The Periodic Table
- Chemical Bonding
- Principles of Metallurgy
- Carbon and its Compounds
- Chemicals Reactions and Equations
- Water Technology
- Solutions

- Fuels
- Electro-Chemistry
- Acids and Bases
- Corrosion
- Polymers
- Environmental Chemistry

## Mathematics

- Quadratic Expressions
- Partial Fractions
- Theory of Equations
- Exponential and Logarithmic series
- Matrices
- Probability
- Permutations and Combinations
- Random Variables and Distribution
- Binomial Theorem
- Real Number
- Linear Equation
- Number System
- Polynomial
- Algebra
- Trigonometry
- Sets
- Progression
- Coordinate Geometry
- Geometry
- Mensuration
- Surface areas and Volume

- Statistics
- Mathematical Modeling