

# Conceptual Chemistry and Physics

## 2019-2020 Curriculum Map

Month	Unit	Topics
August-October	Motion and Energy	Metric measurements Speed, velocity, and vectors Newton's Laws Momentum Work, energy and power Torque
October-November	Lenses and Mirrors	Concave and convex mirrors and lenses  Magnification Real and virtual images
November-December	Gravity	Law of Universal Gravity Satellite orbits Projectile motion
January-February	Atomic Structure	Elements Subatomic particles Atomic models isotopes
February-March	Periodic table and chemical bonding	Physical/Chemical properties Compounds and mixtures Families and periods Ionic and covalent bonding Writing and naming chemical formulas
March-April	Solutions and chemical reactions. Moles and Chemical quantities.	Solute and solvent Concentration calculations Types of solutions Reactants and products Conserving mass and balancing equations  Mole Conversions Avogadro's number Molecular weight
May	Acids and Bases  Thermochemistry	Definitions: acid, base, salt Strength of acid/base; pH Acid reactions Endothermic; exothermic reactions