

Subject: Integrated Chemistry-Physics

Term: 1 - First 9 weeks; 2 - Second 9 weeks; 3 - Third 9 weeks; 4 - Fourth 9 weeks

Term	Time Spent	Content	Standard #	Key Words	Activities	Assessment
1	2 wks	Matter	CP 1.4 CP 1.5	Physical and chemical properties of matter	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
1	2 wks	States of Matter	CP 1.4, CP 1.5, CP 1.11 CP 1.15 CP 2.1 CP 2.2	States of Matter, Energy changes, Fluids, Gases	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
1	3 wks	The Periodic Table	CP 1.1 CP 1.2 CP 1.3 CP 1.6 CP 1.10 CP 1.11 CP 2.3	Atoms, protons, electrons, neutrons, John Dalton, Periodic Table, metals, nonmetals	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
1	3 wks	Structure of matter, Naming compounds and molecules	CP 1.1 CP 1.2 CP 1.29 CP 1.30 CP 1.6 CP 1.7 CP 1.10	Compounds, Ionic compounds, covalent compounds, organic compounds, Types of bonds	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
1-2	2 wks	Chemical Reactions	CP 1.7 CP 1.12 CP 1.13 CP 1.14 CP 1.18 CP 1.29 CP 1.30 CP 2.1 CP 2.2	Chemical reactions, reactants, products, exothermic and endothermic reactions, balancing equations	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, Labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
2	2 wks	Solutions and mixtures	CP 1.4 CP 1.5 CP 1.11 CP 1.14 CP 1.18	Suspension, colloid, emulsion, solutions, alloy, solubility, molarity	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
2	2 wks	Acids, bases, salts	CP 1.4 CP 1.5	Acids, bases, salts, pH, neutralization reactions	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes

2	2 wks	Nuclear Changes	CP 1.8 CP 1.9 CP 1.17 CP 1.19 CP 2.10 CP 2.11 CP 2.12	Radioactivity, nuclear fission, nuclear fusion	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
3	2 ½ wks	Motion	CP 1.21 CP 1.23 CP 1.26	Motion, speed, acceleration, motion and force, friction	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
3	2 ½ wks	Forces	CP 1.22 CP 1.29 CP 2.4 CP 2.5 CP 2.6 CP 2.9	Newton's 3 Laws of Motion, Isaac Newton	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
3	2 wks	Work and Energy	CP 1.15 CP 1.17 CP 1.20	Simple machines, Compound machines, Work, potential energy, kinetic energy, power, energy	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
3	2 wks	Heat and Temperature	CP 1.16 CP 1.17 CP 2.8	Temperature, heat, conduction, radiation, convection	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, lab	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
3-4	2 wks	Waves	CP 1.24 CP 1.25	Waves, vibrations, transverse waves, longitudinal waves, constructive and destructive interference	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
4	2 wks	Sound and Light	CP 1.24 CP 1.25 CP 2.7	Sound waves, light waves, mirrors, lenses, refraction, reflections	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
4	3 wks	Electricity	CP 1.29 CP 1.31	Current, voltage, resistance, Circuits	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes
4	2 wks	Magnetism	CP 1.28 CP 1.31	Magnetic poles, fields, electric currents,	Lecture, note taking, discussion, Q&A, practice problems, enrichment exercises, labs	Visual & auditory monitoring, HW, quizzes, tests, evaluation of notes