NRC *Framework* Disciplinary Core Ideas (DCIs)[20]	AP Chemistry Big Ideas[22]	ACS General Chemistry Curriculum Map Anchoring Concepts[23,24]	College Board Chemistry Standards for College Success[25]	MSU Core Ideas[26]
PS1: Matter and its interactions • PS1.A: Structure and properties of matter • PS1.B: Chemical reactions • PS1.C: Nuclear reactions	1. Atoms 2. Chemical and physical properties 3. Reactions: rearrangement of atoms and electrons	I. Atoms III. Structure/ Function V. Chemical Reactions	Matter	Atomic/Molecular Structure and Properties
PS2: Motion and stability: forces and interactions • PS2.B: Types of interactions	6. Bonds and interactions	II. Bonding IV. Intermolecular Forces	No corresponding standard	Electrostatic and Bonding Interactions
PS3: Energy • PS3.A: Definitions of energy • PS3.B: Conservation of energy and energy transfer • PS3.C: Relationship between energy and forces • PS3.D: Energy in chemical processes and everyday life	5. Thermodynamics/ energy	VI. Energy and Thermodynamics	Energy and change	Energy
No corresponding DCI	4. Rates/kinetics	VII. Kinetics VIII. Equilibrium	Matter and change	Change and Stability in Chemical Systems