

Chemistry in the Community		
Standards	Fall Semester	
Next Gen	Topics Covered	Number of Days
PS1-3	Properties of Water (molecular structure, bonding, IMFs, melting/boiling point, vapor pressure, surface tension, adhesion/cohesion, reactivity, sustaining life)	11
ESS2-5	Earth's Interactions with Water (hydrological cycle and rock cycle, Weathering, Erosion and Deposition)	13
PS1-3/ESS2-5	Review and Exam	4
ESS2-5/PS3-4	Earth's Interactions with Water (Soils and Groundwater: movement and storage, weathering and deposition, supply) and Water Mixtures (solubility)	28
PS3-4/ESS2-5	Review and Exam	4
ESS2-4/ESS2-6/ESS3-6	Atmosphere Basics, Carbon Cycle, Climate Change	15
PS1-3/ESS2-5/PS3-4/ESS2-5/PS3-4/ESS2-4/ESS2-6/ESS3-6	Midterm Project and Midterm Exam	9
Standards	Spring Semester	
Next Gen	Topics Covered	Number of Days
PS1-3/PS2-6/PS3-5	Bulk Properties, Interactions, and Strength of Materials (melting/boiling point, vapor pressure, surface tension, attractions/repulsions, intermolecular attractions), Structure and Properties of Matter (ions, metals, molecules, networked materials, pharmaceuticals, plastics, polymers), Bulk Properties, Structure, and Recycling Project	18
ETS1-3	Scientific Efficiency and Ethics (Constraints and Impacts)	5
PS1-4/PS1-5/PS1-6	Refining Chemical Processes (Energy of Reactions, Factors Affecting Reaction Rate, Equilibrium and Le Chatelier's Principle)	5
PS1-3/PS2-6/PS3-5/ETS1-3/PS1-4/PS1-5/PS1-6	Review and Exam	3
ESS3-6/ESS3-5/ESS2-4/ESS3-2	Energy Sources and Technology (fossil fuel extraction and consumption, solar panels, wind and water energy), Agriculture and Energy Use and Conservation	25
ESS3-6/ESS3-5/ESS2-4/ESS3-2	Review and Exam	4
ESS3-6/ESS3-5/ESS2-4/ESS3-2	Conservation - Recycling and Composing	9
PS1-3/PS2-6/PS3-5/ETS1-3/PS1-4/PS1-5/PS1-6/ESS3-6/ESS3-5/ESS2-4/ESS3-2	Final Project and Final Exam	15