

CHEMISTRY COURSE OVERVIEW - 2018-19

UNIT 1: Alchemy

Matter, Atomic Structure,
and Bonding



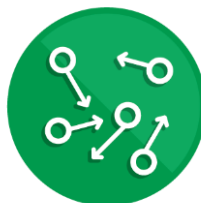
UNIT 2: Smells

Molecular Structure and
Properties



UNIT 3: Weather

Phase Change and Behavior
of Gases



UNIT 4: Toxins

Stoichiometry, Solution
Chemistry, and Acids and
Bases



Engineering: Frostbitten Volunteers



UNIT 5: Fire

Energy,
Thermodynamics, and
Oxidation-Reduction



Why Living by Chemistry?

Living by Chemistry is designed using the 5E model as a framework, meaning every lesson puts students at the center of instruction. Lessons provide an opportunity for students to construct their own understanding of important Chemistry concepts through data collection, analysis, and sense making facilitated by their teacher. Unit maps created by New Visions Chemistry teachers provide guidance for enacting the curriculum in a way that prepares students for the New York Regents exam.

What about the NYSSLS/NGSS?

Teaching with Living by Chemistry is a good first step in aligning instruction to the NYSSLS/NGSS, as students learn about Chemistry core ideas by engaging in scientific practices such as analyzing and interpreting data, developing and using models, and constructing explanations. New Visions has created an Engineering unit that compliments Living by Chemistry and is fully aligned with the NYSSLS/NGSS, providing students the chance to apply their learning to an authentic engineering challenge.

