



Chemistry in Nature

What's in an atom? That which we call an atom with any other composition would not be as stable. To excite students about chemistry, our educators will first discuss how insects communicate by sending chemical signals called pheromones. We will introduce students to the periodic table of elements and discuss its organizational components. Students will observe different properties that some of these elements possess that lead to their organization on the periodic table. Our educators will review what an atom is and its composition with students and discuss how atoms function in a chemical reaction. Through engaging experiments and demonstrations, students will explore every part of a chemical reaction down to the molecules and atoms! By the end of this unit, students will be better acquainted with the periodic table of elements, how an atom works, and the inner workings of chemical reactions!

Day 1: Insect Pheromones

Day 2: Periodic table of elements

Day 3: Exploring elemental properties

Day 4: What's in an atom?

Day 5: Atoms in chemical reactions

Day 6: Ions and compounds

Day 7: Chemical defenses

Day 8: Thermodynamics/combustion reactions

Day 9: Hydrogen vs. Helium

Day 10: Element Case Study

Day 11: Presentation

Day 12: Careers in Chemistry