



CHEMISTRY

Chemistry Creative Chemists

Inspiring the Future of STEM

Chemistry: Creative Chemists

Our “Creative Chemists” program builds foundational knowledge of atoms and molecules ingredients. It empowers students to investigate their properties and apply knowledge to various applications and experiments.

Program Description

- **Explore environments with microscopes:** Investigate everyday objects using microscopes.
- **Decode the Periodic Table:** Discover elemental patterns to predict chemical behavior and analyze acidity and basicity of everyday substances.
- **State, Mixtures, Reactions & Chromatography:** How matter changes via physical/chemical processes, distinguish mixtures from reactions and analyze the composition of ink color.
- **Design Reactions:** Plan and conduct chemical reactions while considering ingredients, conditions, observations, and desired outcomes.
- **Applied Chemistry (Formulations & Polymers):** Create polymer-based slime, synthesize custom lip balm, and explore how complex protein structures dictate their function.

Program Structure

- After-School Club (1.5-2 hrs)
- Women in STEM
- Demo/Hands on Experiments
- Field Trip
- Guest Speaker(s)

New Jersey Science Standards

- **MS-PS1-1:** Atomic Composition
- **MS-PS1-2:** Chemical Reactions
- **MS-PS1-3:** Synthetic Materials
- **MS-PS1-5:** Conservation of Mass/Atoms
- **MS-LS1-3:** Life Science Intersections



JerseySTEM | Bridging Gender, Innovation, and Opportunity Gaps for Middle School Girls in New Jersey

Learn
more about
JerseySTEM



JERSEYSTEM

186 Columbia Turnpike #5-160
Florham Park, NJ 07932