

Rachel Ma

About

Chemistry is not just a subject - it is a fascinating puzzle that explains the world around us. With a B.S. in Chemistry and a Ph.D. in Polymer Science, Rachel spent her career applying advanced chemical principles to real-world innovations. As Chief Product Design for a major consumable material company in the semiconductor industry, she knows firsthand how fundamental chemistry concepts are creating the technologies that power our modern world. With a passion for chemistry, she joined the creation of NEXUS with the goal not only to help students master STEM subjects for school but also to unlock students' potential in fascinating STEM career paths. She will aim to tailor each session to the experience of the students and empower them with critical thinking skills, moving beyond simple memorization to a deeper understanding of chemical principles. Using interactive examples and real-world connections, Rachel and our team will design the curriculum around hot topics in chemistry/material to make abstract concepts come alive. Let us work together to not only improve your grades but also cultivate a lasting appreciation for the science of matter.

What I Teach

- Teacher of Chemistry

Education

- Ph.D. in Polymer Science from the University of Connecticut
- M.B.A. from Gies School of Business, University of Illinois Urbana-Champaign

Experience

- Successfully developed advanced polymer material products for semiconductor manufacturing process, with several patents granted
- 10+ publications in world-class chemistry and material science journals
- Teaching assistant experience for college chemistry and graduate-level polymer material classes