



SCIENCE & ENGINEERING

Innovation is Everywhere! Big Learning Science & Engineering at Wyngate



Chemistry

Winter Session Starts January 10, 2022



Chemistry Detectives:

Explore solids, liquids, and gases and create new materials from exothermic and endothermic chemical reactions. Use viscosity and density to describe liquids and make your own lava tubes. Experiment with mixtures, solutions, acids, and bases to help solve our gold paper caper, mix a polymer, and make glue from milk.

Grades K-2.

Chemistry Creations:

Test the saturation point of solutions, learn how to separate liquids using evaporation, chromatography, and absorption. Explore capillary action, create physical and

chemical reactions, and use yeast to detect sugars and starches. Examine the properties of mixtures and non-mixing materials, test pH levels of common substances, and make a polymer.

Grades 2-3.

Your Own Mini-Lab:

Detect and measure invisible matter, test for vitamin C and E and whether vitamins are fat or water soluble. Use Chemistry to solve mysteries, titrate acids and bases, and test flow resistance. Learn how retention factors affect chromatography, and make cheese and goop.

Grades 3-5

Register and pay online at biglearning.asapconnected.com

Payment plans and scholarships are available!

Your child's safety and well-being is our highest priority. All Big Learning® instructors have been fully vaccinated against COVID19 and will follow all MCPS safety guidelines. Students and instructors will wear masks at all times. Extra materials have been added so even when students are paired up (at a distance) to record data or discuss results, they will each have their own set of materials. Instructors have received extensive training on how to address your child's social-emotional needs while inspiring curiosity! Big Learning is also offering virtual classes this winter—see our website for options.



The following classes will be offered at Wyngate ES:

Program	Day	Dates	Time	Fee
Chemistry Detectives, gr K-2	M	Jan 10, 31,	3:45 PM	165.00
Your Own Mini-Lab, gr 3-5		Feb 7, 14, 28, Mar 7, 14, 21	to 4:45 PM	

Big Learning is a non profit founded by the PTA in 1975!

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These materials are neither sponsored nor endorsed by the Board of Education of Montgomery County, the superintendent, or this school.