



HIGH SCHOOL SCIENCE LABS

Fridays - 9:30am-11:30am

Ages 14+

All lab costs are included in registration fee. Course enrollment is limited to 12 students. Descriptions for individual labs coming soon.

Instructor: Tonya Shearer, PhD

Location: STEM Lab (suite 21)

\$30/lab (\$60/Fetal Pig Dissection)

10% off sibling discount available

LAB SCHEDULE:

Chemical Changes - Friday, Feb 28

This week, we conduct several experiments to characterize and quantify chemical changes, including endothermic and exothermic reactions, and production of gases.

Sublimation, Deposition & Decomposition Reactions - Friday, Mar 27

We study the processes of sublimation and deposition through iodine experiments, as well as conduct experiments to decompose compounds.

Paper Circuits and Memory Wire - Friday, Apr 3

Students investigate electricity as they construct paper circuits and electrify nitinol to understand properties of memory wire.

Frog Dissection - Friday, Apr 17

Students investigate the external and internal anatomy of a vertebrate, the grass frog, *Rana forreri*, as they work together to perform the dissection. Focus will be on proper dissection technique, as well as specific body systems and anatomical functions.

Fetal Pig Dissection (two weeks) - Friday, Apr 24 and May 1

We study mammalian organ systems as we investigate the external and internal anatomy of a fetal pig. Using proper dissection techniques, students work together to perform the dissection over a two-week period.

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