

Chemistry Teacher Professional Development By Harrisburg University

Background

In need of Act 48 hours? Here at Harrisburg University we are offering Act 48 Chemistry Professional Development lab sessions on August 9th. Free lunch will be provided during this one day session. Teachers will leave with detailed laboratory instructions that they can use in their own teaching laboratories.



Guided Lab Learning: Using Spectrometers to Study Colored Pigments in the Laboratory

In this hands-on laboratory, each teacher will have the opportunity to perform liquid extraction(s) from a variety of common food or household items of their choice. An absorbance spectrum of the pigment using a spectrometer will then be collected over a range of wavelengths. Instruction will include using MS Excel or equivalent to record the data, plot the spectrum, and identify wavelength maximum. Relationship to a color wheel will be highlighted as well.

**AM Session
(9am-12pm)**

Guided Lab Learning: Teaching Density with Forensic Applications

In this hands-on laboratory, teachers will learn how to use density measurements as a way to identify unknown plastics using the same method as forensic crime laboratories. Teachers will also learn how to teach, perform, and interpret the subsequent confirmatory test to identify unknown plastics – the burn test.

**PM Session
(1:15pm-4:15pm)**