

# Hawai'i APSI 2025 Agenda



Date: 14-17 July, 2025  
Time: 8:00 am-4:00 pm  
Damien Memorial School

## Theme:

Embracing the spirit of aloha!  
(The Aloha Spirit - Compassion and kindness to all with whom we cross paths in our everyday lives)

## Course Description:

During this AP Chemistry @ Hawaii APSI, you'll explore the course framework, the exam, and the new AP resources that will help you plan and focus instruction—and give you feedback throughout the year on the areas where individual students need additional focus. You'll also learn about completing the digital activation process at the start of the school year that will give you immediate access to the new resources and will help ensure that your students can register for AP Exams by the new fall deadlines. By attending this APSI, you'll gain deeper insight into the following key takeaways, among several others: Understand the Course; Plan the Course; Teach the Course; Assess Student Progress; and Engage as a Member of the AP Community. In addition, specific attention will be paid to the following AP Classroom resources: unit guides, personal progress checks, AP teacher community, and the AP question bank.

## The following are some of the goals for the week:

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The participants will...

- Understand the format, critical components, and the possible ways the Course Exam Description (CED) may be incorporated into their AP Chemistry course
- Complete their Audit (if they are new to AP)
- Understand the structure of the AP Classroom platform
- Come away with easy and low cost labs/activities that address key concepts
- Come away with a better conceptual understanding of AP Chemistry
- Come away with a support group of fellow AP teachers
- Complete and examine the 2025 AP Chemistry exam

## Expected outcomes for the 4-days:

The participants...

- feel more comfortable with the pace and content needed to prepare their students for the test in May.
- will have performed or seen numerous labs and activitiesDevelop course related assignments, activities, and instructional strategies



- will understand how the content of the first year Chemistry course can build a basic understanding of an AP Chemistry course.
- understand what action verbs must be taught to help the students create answers that best fit the questions asked.
- understand the role of their school's AP Coordinator

## What should participants bring to the workshop?

- Laptop to receive files, work on labs, and explore websites
- For the new and experienced participants, resources that make their teaching better and easier.
- A positive and open attitude to examining new and old ways of teaching.
- Personal safety equipment (student equipment will be provided.)
- Some former participants have found a notebook to be useful.
- ALL DOCUMENTS NEEDED FOR THE WORKSHOP OR GENERATED IN THE WORKSHOP WILL BE AVAILABLE ON A SHARED GOOGLE DRIVE.

## Agenda for Days 1-4

This schedule may change in accordance with the participants needs as determined during the first day of the workshop

### Day 1

- Welcome
- Discuss the Goals of the workshop
- Explore the AP Chemistry CED
  - AP Chemistry Resources
  - AP Chemistry CED Notes
  - Essential Knowledge NEW
  - Themes vs. Big Ideas
  - The Audit
- Introduce the AP Classroom
- Homework: 2025 AP Chemistry Exam
- Kinetics
  - Lab/Activity: Sulfur Clock Rx
  - Lab/Activity #2: Sulfur Clock Rx - Inquiry (Arrhenius Equation)
- Good Technique Labs...
  - Lab/Activity: Mass Percentage of Copper in Brass (FLINN Scientific)
  - Lab/Activity: Absorption Demo

### Day 2

- Videos and Activities by UNITS - GREAT!!!
- Kinetics
  - Lab/Activity: Colorimetric Equation: What is the Concentration of that Solution?
  - Lab/Activity: AP Investigation: Kinetics: What is the Rate Law? - Integrated
  - Lab/Activity: Radioactive Decay - without the misconception
  - Lab/Activity: Radioactive Decay - AP Level
- Reaction Mechanisms and Energy Diagrams
- Kinetics to Equilibrium
  - Lab/Activity: Dueling Graduated Cylinders
  - Job's Plot - How do you get the Stoichiometric Ratios
  - Lab/Activity: Equilibrium: Can We Make the Colors of the Rainbow?
- Flipping your AP Chemistry course



## Day 3

- Titration Curve
  - Lab/Activity: 3 Acid/Base Titrations
  - Buffers explained
  - What is a weak acid?
  - What is a buffer?
  - What is the difference between an endpoint and equivalence?
  - What happens after equivalence?
  - Lab/Activity:  $K_a$  of a Weak Acid - Inquiry and a Summative Assessment
- Solubility
  - Lab/Activity: Trouble of the 2
- $K_w$  – Conceptual understand

## Day 4

- 2025 – Examining your homework
- Time to Share
- New and New-ish to AP Chemistry
  - MO Theory
  - Mass Spec
  - PES (CB)
- EQUITY AND ACCESS
  - Equity and Access – Individual/School-wide Policy
- Intermolecular Forces
  - Lab/Activity: The Evaporation of 3 Liquids
  - Discussion: *Why aren't the kids getting this?*
- Thermodynamics
  - Lab/Activity: Lab – Heat Capacity and Specific Heat
  - Lab/Activity: The Stretching of a Rubber Band
- Electrochemistry (Electrolytic and Galvanic)
  - Lab/Activity: Electrochemical Cells (Sally Von der Brink)