

# FORENSIC CHEMISTRY: CHEMICAL ANALYSIS

Big Idea	Learning Objectives	SUPPLIES	Formative Assessments
Student will understand the main scientific roles, tools, analysis, and evidentiary chemistry behind forensics.	Students will identify the different pieces of equipment used for chemical analysis of substances.	<ul style="list-style-type: none"><li>○ Chemical Packet</li><li>○ Chemical WS</li><li>○ Gatorade Lab Sheet<ul style="list-style-type: none"><li>● 7 Gatorade Solutions (1 poisoned)</li><li>● UV Spectrum</li><li>● Laptop + Software</li></ul></li></ul>	<ul style="list-style-type: none"><li>● <i>Guided Practice</i></li><li>● <i>Independent Practice</i></li><li>● <i>Partner/Group Activity</i></li></ul>
Guiding Questions	STANDARD		Summative Assessments
How is chemical analysis done?	N/A		<ul style="list-style-type: none"><li>● <i>LAB</i></li></ul>
WHAT am I Learning?		WHY am I learning this?	How will I know I learned it?
Chemical analysis	To better understand the variety of techniques used to analyze substances	Solve the lab and answer with 100% accuracy question sheet	
Modifications/Safety		Accommodations	
N/A		Provide answer key when necessary and extra time on task.	
TIME FRAME: 90+ min	SEQUENCE OF INSTRUCTIONAL DELIVERY		
<i>Warm-Up:</i>	<ul style="list-style-type: none"><li>● Students will perform a homework check for accuracy.</li><li>● Students will be given a chemical analysis packet to read thoroughly.</li></ul>		
<i>Direct Instruction:</i>	<ul style="list-style-type: none"><li>● N/A</li></ul>		
<i>Guided and/or Independent Practice:</i>	<ul style="list-style-type: none"><li>● Students will perform a group lab activity in which they will use UV data to determine which Gatorade bottle was poisoned.</li></ul>		
<i>Closure:</i>	<ul style="list-style-type: none"><li>● Students will finish CSI: Gum Drops if needed.</li></ul>		

TEACHER NOTES: