

Post Secondary Lesson Plan

Subject: Chemistry (Mole Calculations)

Overview	Students will learn how to take a given chemical equation and be able to solve for how many moles or molecules, etc are in each given compound or element.
Objectives	For students to learn how to manipulate chemical equations to be able to discern exactly how many moles or molecules are in a given substance or compound or how many are required.
Standards	CORE STANDARD C.1.15-Given a chemical equation, calculate the mass, gas volume, and/or number of moles needed.
Materials	-Scientific calculators for each student -Computer for each student
Procedure	<ol style="list-style-type: none">1. Lecture the class on how to manipulate a chemical equation to show how many moles or molecules or grams are required of a certain compound to obtain the proper reactants.2. Give the class a worksheet to complete in class and an additional worksheet to complete for homework. Tell them that there will be a quiz the following day.3. Take the class to the lab and have each student complete the created quiz on questionform.com that covers the subject.
Evaluation	Collect the class worksheet and also look over the assigned homework. These should be proper indicators of how the quiz should go for each student. Then evaluate the questionform.com quiz that was created and give the students feedback on what was done correctly or incorrectly.

Standards According to: <http://dc.doe.in.gov/Standards/AcademicStandards/StandardSearch.aspx>