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Poway High School
Course: AP Chemistry

Lesson Plan on Seminars

- This lesson plan is based on ideas gleaned from my experience with the externship. I really got the importance of presentation and listening skills. These skills need to be explicitly taught to prepare well-rounded students for occupations in Allied Health. I have done seminars with the AP students for years. They have to teach the class how do problems that I had then prepare in advance. They really struggle with presenting problems in a logical fashion and their thinking processes are not always clear. I want to bring that out and have the students be reflective of their own presentation and teaching skills.

Technical / Academic Standards:

Listening and Speaking (Grades 10 & 11)

- 2.2 b convey information and ideas from primary and secondary sources accurately and coherently
- 2.2 c make distinctions between the relative value and significance of specific data, facts, and ideas
- 2.2 d include visual aids by employing appropriate technology to organize and display information on charts, maps, and graphs
- 2.2 e anticipate and address the listener's potential misunderstanding, biases, and expectations
- 2.2 f use technical terms and notations accurately
- 2.5 a structure ideas and arguments in a coherent, logical fashion
- 1.d formulate explanations by using logic and evidence

SCANS Competency

- Information → acquires and evaluates information, identifies need for data, organizes information, interprets and communicates information, reports
- Interpersonal → teaches others, exercises leadership
- Systems → uses organizational charts and explicitly demonstrates problem solving processes

Assessments:

Class evaluation

The Plan

Introduction (at least two days prior to seminar):

- Students will be assigned problems to teach prior to class period
- Teacher will read academic and technical standards as well as SCANS competencies
- Teacher will guide students with the Socratic Method as to reasons for the standards beyond chemistry
- Teacher will summarize and emphasize the importance of soft skills in life beyond school and explain how this will be reinforced during seminars
- Teacher will give direction to pay attention/be reflective as to how their teammates interact and work as a group. They must share out at least one aspect of the standards the next day in a debrief session.

“We need to learn to be reflective about our learning as well as our character growth.”
 “Teaching is the highest level of learning.”

Seminar:

- Student will present problem having received the expectations
- The rest of the students will reflect on the presentation and be prepared to give a score according to the rubric below for one standard. A new student will be chosen for each standard. Other students can offer feedback as well. Each person chosen as a listener will receive a +1 or -1 listening/constructive feedback point by the teacher. This will continue throughout the entire semester.

Presentation Rubric:

Standard	Score (1,2,3)
2.2 b convey information and ideas from primary and secondary sources accurately and coherently	
2.2 c make distinctions between the relative value and significance of specific data, facts, and ideas	
2.2 d include visual aids by employing appropriate technology to organize and display information on charts, maps, and graphs	
2.2 e anticipate and address the listener's potential misunderstanding, biases, and expectations	
2.2 f use technical terms and notations accurately	
1.d formulate (coherent) explanations by using logic and evidence	
SCANS → demonstrate problem solving processes	

3 = good → meets standards

2 = fair → attempts to address standard but lacks thoroughness or follow-through; needs improvement

1 = poor → fails to meet standard

Listening Rubric:

+1 = offers constructive feedback that reflects the presenters ability to meet standard

-1 = feedback is destructive or does not reflect the presenters ability to meet standard