

Chem 116 Online Homework Evaluation

Richards-Babb, M., Drelick, J., Henry, Z., & Robertson-Honecker, J. (2011). Online homework, help or hindrance? What students think and how they perform. *Journal of College Science Teaching*, 40 (4).

25 Items and 4 Open Question

Dimensions are not defined

I completed all of the online homework assignments
I would have completed the online homework assignments even if they were not to be graded.
I only completed the online homework assignments because they were worth a portion of my grade.
Besides online homework and laboratory homework, I did none of the other homework recommended on the homework sheet.
I looked over the graded online homework in order to learn from my mistakes.
I generally understood the questions within the online homework assignments.
I could complete the online homework assignments with little outside help.
I guessed at the answers to the online homework assignments.
For numerical questions, I worked out the answers with pencil and paper before submitting an answer within the online homework assignment.
I never tried to figure out my mistakes on questions I answered wrong within the online homework.
Overall, my experiences with the online homework was positive.
In the future, I would be less apt to take course that included online homework
The online homework was worth the effort
The online homework assignments were waste of time
The online homework assignments were relevant to what was presented during lecture
The online homework assignments did not further my understanding of chemistry concepts
The online homework assignments were challenging
The online homework assignments made me think more about chemistry than I would have
The weekly deadlines for online homework assignments were helpful by encouraging me to study in more consistent manner.
I spent less time cramming for chemistry exam this semester than for previous chemistry course
I felt more prepared for my exams this semester than for previous chemistry courses
I spent more time doing homework for this class than for any other class
I received higher scores on the four hourly exams due to my completion of the online homework.
I will receive a higher letter grade in general chemistry due to my completion of the online homework assignments.
I recommend that the online homework assignments be used for future general chemistry classes.

5-point Likert scale (a = *strongly agree*, b = *agree*, c = *neutral* (or neither agree nor disagree), d = *disagree*, and e = *strongly disagree*)

Cronachs α : NA

Open Question and Coding Scheme

Has use of the online homework changed your chemistry study habits? If so, in what way?

Coding scheme

Category 1: Improved study habits

Subcategory a: study more

Subcategory b: study more often/frequently/spread study over period of days

Subcategory c: less or no cramming

Subcategory d: understand chemistry better

Subcategory e: feel more prepared

Category 2: Study habits stayed the same

Subcategory a: studied only the day online homework due

Category 3: Adversely affected study habits

Subcategory a: hindered work in other classes

Subcategory b: online homework difficult/waste of time

Subcategory c: ran out of time to complete

After incorrectly answering an online homework question on your first attempt, what did you do? Did you guess for the remaining two attempts or did you seek help from the link or text?

Category 1: Reworked/checked/backtracked

Subcategory a: reworked

Subcategory b: checked/looked for error

Subcategory c: backtracked

Category 2: Sought help from print/online source

Subcategory a: online link

Subcategory b: text (online or printed)

Subcategory c: lecture notes

Category 3: Sought help from person

Subcategory a: friend

Subcategory b: professor

Subcategory c: Chemistry Learning Center (CLC)

Subcategory d: other students

Subcategory e: study group

Category 4: Guessed as last resort

Category 5: Guessed immediately

Category 6: Never guessed

Do you study chemistry more or less?

Do you spread out your chemistry study over more days or just study chemistry on the days that the online homework is due?"