

Appendix 4. Student post-test survey

1. How difficult was this course compared to other science classes you have taken?
 - a. much more difficult
 - b. more difficult
 - c. about the same as other classes
 - d. less difficult
 - e. much less difficult

2. How interesting was this course?
 - a. very interesting
 - b. interesting
 - c. average
 - d. uninteresting
 - e. very uninteresting

3. Richard Hake (1998) defines interactive engagement methods as "designed at least in part to promote conceptual understanding through interactive engagement of students in heads-on (always) and hands-on (usually) activities which yield immediate feedback through discussion with peers and/or instructors." Examples of these activities include group work, classroom discussions, in-class writing, and clicker questions that require deep thinking.
How often were active learning, interactive-engagement, or other student centered teaching activities used in the lecture portion of this course?
 - a. Never (or almost never)
 - b. Once per week
 - c. Once per class
 - d. More than once per class