

- For each multiple-choice or short-answer question that you selected/wrote an incorrect answer on the exam, fill in the requested information, including identifying the reason that best describes why you missed the question.
- Complete the follow-up questions on the next page.

Possible reasons:

- I misread the question.
- I misread the choices (answer selection).
- I had trouble interpreting the question.
- I didn't consider the combination answer(s) (all of the above, none of the above, a and b, etc.)
- I wasn't confident in my initial answer so I changed the right answer to the wrong answer.
- I didn't study this concept enough.
 - I didn't review this concept/information because I didn't think it was important.
 - I didn't review the diagrams from the lecture notes, group activities, or the textbook.
 - I didn't review the example problems/questions in the lecture notes.
 - I didn't do enough practice problems (working them completely on my own).
 - I never understood this concept and didn't get help.
- Other. Please discuss.

Question #	Correct Answer (s)	Your Incorrect Answer	Reason(s) and/or Notes
1	(1 mL between arrows)		
2	1, 3, 3, 3		
3	c (if had parentheses around numerator)		
4	smallest = c largest = a		
5	$1.5 \times 10^9 \text{ cm}^3$		
6	a. 352 cm^3 b. $1.99 \times 10^{25} \text{ Ti atoms}$		
7	B & E		
8	Part 1: c & h, a & g Part 2: (essay)		
9	$^{107}_{47}\text{Ag}$, 47, 107, 47, 60 $^{32}_{16}\text{S}^{2+}$, 16, 14		
10	a. 20 neutrons b. 42.70%, 122.9 amu c. (draw mass spectrum)		
11	$^{200}_{84}\text{Po} + {}^0_{-1}\text{e} \rightarrow {}^{200}_{83}\text{Bi}$		
12	$^{241}_{95}\text{Am} + {}^4_2\text{He} \rightarrow {}^{243}_{97}\text{Bk} + 2 {}^1_0\text{n}$		
13	7 alpha & 4 beta		
14	a. 3; b. 1; c. 2		

15	a. electron capture b. beta decay (plus explanations of change in N/Z)		
16	b		
17	(essay)		

3. Based on your analysis of your incorrect answers, what do you think that you could specifically work on for the next exam?
4. Carefully review your errors on the calculation problems. Are there any common or major themes? (missing units, trouble with set up, wrong conversion factors, conceptual errors, etc.)
5. A common recommendation is to study two hours for each hour of class in order to be successful in a college-level chemistry course. This course has 3 hours of combined lecture, 1 hour of discussion, and 3 hours of lab (approximated as 1 hour of class), so 8-10 hours/week would be recommended for this class. **How many hours per week do you study chemistry? What do you think about how much you are studying – too much, just right, too little?**
6. Which of the following resources have you utilized? Place a check mark by each resource you have used this quarter for chemistry.
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|--|-----------------------------|
| a) instructor's office hours | e) self-formed study group |
| b) Science Study Center | f) Kahn Academy |
| c) free drop-in hours at Academic Success Center | g) Wikipedia |
| d) Canvas discussion forum | h) Google (internet search) |