

MEMORANDUM Chemistry Department

To: Bill, Nellie, Melissa, Carolyn, and Randy
From: John I. Gelder
Date: April 25, 2001
Re: Grading PS#12

STAFF MEETINGS...FRIDAYS, 12:30 p.m. PS127.

The answers to PS #12 are attached. After reviewing the problem sets I have decided we should grade problems PS12.1, PS12.3, and PS12.9 for 3 points. The maximum possible on the problem set is twelve points. The remaining three points are awarded on an all or nothing basis for completion of the remaining problems. Note: If the word 'Late' is written at the top of the Problem Set grade as usual but deduct 3 points from their total. Note: 'Late' means the student found me at the end of class or immediately after class. I will not accept Problem Sets more than a few minutes after class is over, and such cases will have a minimum of 3 points deducted from their score.

Please return the graded problem sets to your students in laboratory next week. Be sure to record the scores for each student.

Copies of the answers and the grading memo are on the WEB.

Grading the Review Problem Set

- PS12.1 **3 points** 1 point for the equilibrium $[H^+]$, 1 point for the equilibrium $[PO_4^{3-}]$ and 1 point for the calculations. All three equilibrium steps must be present, along with the calculations for this point.
- PS12.3 **3 points** 1 point each for parts b, d and e. Look that the charges are correct. If only one species is missing a charge do not worry, if more than one species does not have a charge deduct 1 point for the problem.
- PS12.7 **3 points.** Grade part a, b and d. Each for 1 point. Award the point as long as most of the work is correct.
- 3 points** For attempting the remaining 7 problems. Remember each problem must have an answer, an attempt. If the student writes nonsense for any of the other answers deduct the 3 points.