

General Chemistry Lab CH227

- Lab exam is *this week*, in lab.
- CH 227 grades will be posted on or before Dec. 12. No grades will be given on the phone or by email.
- CH228 labs will meet the first week of winter term and a pre-lab will be required. A complete lab schedule will be posted on the web.

Lab Practical Exam

- What should I expect when I get to lab?
 - Your TA will assign you an area of the lab to use as your work station.
 - There will be 10 min at the beginning of the lab period for you to get organized and familiarize yourself with the contents of your basket. This basket will contain all of the necessary glassware, spot plates, and testing reagents.

- The following testing material will be provided:

- magnets
- pH paper
- 6 M HCl
- AgNO₃
- BaCl₂
- 6 M H₂SO₄
- KMnO₄
- 6 M NaOH

- There will be a total of 20 chemicals to identify by both **name** and **formula**. (5 points each for a total of 100 points.) Spelling counts!
- All chemicals used in the exam will be in the same form as they were for the "Identification of Common Chemicals" lab.
- A note on the NFPA hazard diamonds: All of the chemicals for this lab are "unknown" with unknown associated hazards. Anytime you work with an unknown substance, you should "assume the worst". Therefore, all hazards for the unknowns are listed as "3" on the NFPA scale.

The 90-min. exam will be formatted as follows:

- When ready to begin, your TA will give each student a different unknown. You will have a 4-min test period to identify the unknown.
- At the end of the 4-min test period, your TA will call time and you must pass your sample along in the indicated direction. You will be passed a new unknown.
- The first 40 min will consist of ten 4-min test periods. There will then be a 5-min break. This will be followed by a second set of ten 4-min test periods.

Exam format, cont'd...

- The 5-min break may be used for cleaning glassware and making final tests on samples of compounds that you have saved.
- If one sample is quite easy to identify you *may not* go on to the next sample, but you may go back and work on other samples **that you have saved**.
- At the end of the entire test there will be another 5-min break during which you are expected to complete your work and hand in your answer sheet. All papers must be submitted within 5 min of the last test period.

Exam format, cont'd...

- With the exception of the testing reagents, the only resource you will be allowed to use is your lab notebook and the flowchart that you prepared previously.
- You will not be able to consult with your TA or other students during the exam.

After turning in your answer sheet, all glassware in your kit must be cleaned and inspected by your TA. 5 Points will be deducted from the exam score if glassware and work area are not cleaned before leaving the lab.

Grades and “the curve”

TA "X"	TA "Y"
89	97
89	96
88	93
87	93
86	92
86	92
85	92
84	91
84	91
84	91
83	90
82	90
82	89
81	89
81	88
80	88
80	87
79	87
78	86
76	86
75	86
74	85
72	82
67	82
66	81
66	81
65	80
55	77
52	76
45	75
37	87

Average =

Exam scores:

TA "X": mean = 71%

TA "Y": mean = 72%

Grades and “the curve”

	TA "X"	TA "Y"
	89	97
	89	96
	88	93
A	87	93
	86	92
	86	92
	85	92
	84	91
	84	91
	84	91
	83	90
	82	90
	82	89
	81	89
B	81	88
	80	88
	80	87
	79	87
	78	86
	76	86
	75	86
	74	85
	72	82
	67	82
C	66	81
	66	81
	65	80
	55	77
	52	76
	45	75
	37	87

Average =