

Instructions for the Administration *Chemistry Lab* for the 2017 Princeton Science Olympiad Administration

Before the test:

- Check:
 - Safety
 - Ensure that all students have both
 - Eyeglasses
 - either a lab coat or a lab apron
 - If a student does not have these items, ask him or her to leave.
 - If he or she returns with proper safety equipment, he or she may still take the test.
 - See official rules for more info
 - Fair Game
 - Ensure that no group (pair) has more than five cheats total.
 - See official rules for more info
- Say something along the lines of (but reword as you please):
 - You may open to the third page (labeled page 1) and read the directions. Do not open the test beyond the directions.
 - Read *all* the directions carefully
 - You have **50 minutes** to complete 1 lab and 6 theoretical problems. A **5-minute warning** will be given. Both the difficulty and the weighting of the theoretical problems increases as you progress.
 - **Leave at least 10 minutes** before time is called to clean up your lab. If your lab space is not clean when time is called, we will subtract 5% of the total points possible from your final score.
 - Do not open the test until you are instructed to begin.
 - Write relevant calculations in the appropriate boxes when necessary. **If you want partial credit, you must show your work.**
 - **Don't forget units!** Correct answers without units (or with improper units) will not receive full credit.
 - If you take the pages of the test apart, make sure to **label each page** with your team number and staple all the pages together (in order) before turning your test in.
 - Unless stated otherwise, ΔG , ΔH , and ΔS are per mole.
 - In the event of a tie, the percent error of the experimental ΔH and ΔS values calculated in 1.e will be used as tie-breakers.

- After the test, there is a short survey for you to fill out. You will be given some time after the test is over to complete it
- This exam is 31 pages long. You will not finish. Best of luck! 😊
- Starting the test
 - Tell students that they may open their tests and begin
 - **Start a timer for 50 minutes**
 - Write the end time on a board if possible for students to see

During the test:

- At least one supervisor should be watching students (esp. for lab safety), answering questions, etc. The other may grade tests. Switching is encouraged
- **Make sure to give 10-minute warning for cleaning lab space**
- **Make sure to give 5-minute warning for cleaning lab space**

After the test:

- Tell students to stop working on test
- Ask them to staple their papers in order
- Tell students that they may fill out the post-test survey but may not make any other markings on their paper
- Ask students to leave their tests at their lab space
- Walk around and collect tests, **check the appropriate Lab Clean (Yes/No)** box on the front page of the exams
- Reset for the next group