

CHEM 1111 QUESTIONNAIRE

NAME

E-MAIL

received "Welcome to CHEM 1111": Y N

MAJOR

YEAR IN COLLEGE

CHEMISTRY COURSES COMPLETED (e.g. HS Chemistry, AP Chemistry, CHEM 1021)
please estimate proficiency

PHYSICS COURSES COMPLETED

MATH COURSES COMPLETED

ENGLISH COURSES COMPLETED

FOREIGN LANGUAGE COURSES COMPLETED (e.g. 4th yr. HS French, CHIN 2120)

OTHER COURSES TAKEN THIS SEMESTER

PLANNED EXTRACURRICULAR ACTIVITIES

CAREER GOALS OR PRIMARY CHEMICAL INTERESTS

CHEM 1111 QUESTIONNAIRE

Please try to answer the following problems. If you can't, indicate whether you remember seeing this type of problem and how long it might take you to solve it with your books.

- 1) $9q = 5t + 164$. What is q when $t = 5$?

- 2) $\rho = m/V$. What is the equation for V in terms of ρ and m ?

- 3) Give the solutions of $x^2 + 5x + 6 = 0$.

- 4) $\log_{10}(10^3 \times 10^4) =$

- 5) State the ideal gas law, identify each quantity, and give units for each

- 6) Give the value of Avogadro's number N .

- 7) State the value and units of the gas constant R .

- 8) How many moles of molecular ammonia (NH_3) can be formed from 1 mole of molecular hydrogen and 1 mole of molecular nitrogen?

- 9) Guess numerical ratios between the densities of ice, water, and water vapor at STP.