

Chemistry 1500, Dr. Hunter

Summer 2004

Quiz # 2 (Individual Part)

Name: \_\_\_\_\_  
                                    **Last name**                                    **First name**

Student Number (your social security number): \_\_\_\_\_

Signature: \_\_\_\_\_

The individual portion of this quiz has one page of questions plus this title two pages. Please make sure you have all pages. Place your name (last name first) and your student number (or your Social Security number) in the spaces above and sign on the line. *Initial each page of the exam in the top right hand corner* so that if your exam pages get separated I can match them to you.

To obtain maximum credit for each question, show your work in detail. Partial credit for questions will not be assigned if no work is shown. **Indeed, no credit will be granted if complete work is not shown even for correct answers.** Feel free to use pictures/diagrams to illustrate your text answers and/or to use short text explanations to explain your drawings if your pictures are ambiguous. If you have to make assumptions, etc., to complete any answers, write me a short note stating and/or explaining your assumptions and testing them to the degree possible.

On some questions on this exam, you are given a choice about which 3 out of 4 parts to answer. On these questions, be sure that you circle the part numbers of those parts you want me to grade. [Note: If you do not indicate your choice, I will count only the first 3 parts towards the grade.]

You have 20 minutes for the individual part of this quiz. The thirty points for the individual part of this quiz correspond to 7.5% of the 100 overall points for this course.

Grade      /30 (individual)  $\Rightarrow$  /7.5%

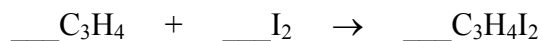
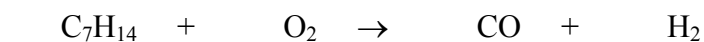
1 (30 points total). Answer 3 out of 4 parts below. Indicate the 3 parts you want me to grade by circling their part numbers.

a. Clearly describe five objects that are made up out of a single element and are found in your home.

b. What is the numerical value of an Avogadro and give one example that illustrates how large this number is.

c. Give the chemical formula for hydrogen sulfide and then clearly explain why it is added to natural gas.

d. Balance each of the following chemical reactions.



## Chemistry 1500, Dr. Hunter

Summer 2004

## Quiz # 2 (Group Part)

Name: \_\_\_\_\_, \_\_\_\_\_ Signature: \_\_\_\_\_

Name: \_\_\_\_\_, \_\_\_\_\_ Signature: \_\_\_\_\_

Name: \_\_\_\_\_, \_\_\_\_\_ Signature: \_\_\_\_\_

Name: \_\_\_\_\_, \_\_\_\_\_ Signature: \_\_\_\_\_

Name: \_\_\_\_\_, \_\_\_\_\_ Signature: \_\_\_\_\_

Name: \_\_\_\_\_, \_\_\_\_\_ Signature: \_\_\_\_\_

**Last name****First name**

The group portion of this quiz has one page of questions plus this title two pages. Please make sure you have all pages. Place the names (last name first) and signatures of each group member above. *Initial each page of the exam in the top right hand corner* using the initials of the first group members so that if your exam pages get separated I can match them to your group.

To obtain maximum credit for each question, show your work in detail. Partial credit for questions will not be assigned if no work is shown. **Indeed, no credit will be granted if complete work is not shown even for correct answers.** Feel free to use pictures/diagrams to illustrate your text answers and/or to use short text explanations to explain your drawings if your pictures are ambiguous. If you have to make assumptions, etc., to complete any answers, write me a short note stating and/or explaining your assumptions and testing them to the degree possible.

You have 20 minutes for the group part of this quiz. The ten points for the group part of this quiz correspond to 2.5% of the 100 overall points for this course.

Grade /10 (group)  $\Rightarrow$  /2.5%

1 (10 points total). Clearly describe five different methods used to determine the toxicity of a new chemical.

1 (30 points total). Answer 3 out of 4 parts below. Indicate the 3 parts you want me to grade by circling their part numbers.

a. Clearly describe five objects that are made up out of a single element and are found in your home.

b. What is the numerical value of an Avogadro and give one example that illustrates how large this number is.  $6.023 \times 10^{23}$  e.o.o

c. Give the chemical formula for hydrogen sulfide and then clearly explain why it is added to natural gas.  $H_2S$  e.o.o

d. Balance each of the following chemical reactions.

