

Introduction to Chemistry  
Quiz 3 c

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Elements and Compounds  
Physical and Chemical Properties  
States of Matter

1. Describe the following as physical or chemical changes

- (a) Iron generates a gas in acid
- (b) Water boils
- (c) Burning
- (d) Titanium pulls into a wire

2. Describe the properties of a solid based on shape, volume, and compressibility.

3. Provide the chemical symbol for the element with an atomic number of 88.

4) How many atoms are in one formula unit of iron(III) sulfate  $\text{Fe}_2(\text{SO}_4)_3$ ?

- a) iron atoms \_\_\_\_\_
- b) sulfur atoms \_\_\_\_\_
- c) oxygen atoms \_\_\_\_\_
- d) total atoms \_\_\_\_\_

5. Fold quiz with your work inside, then write your name on the outside.