

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

Hour: \_\_\_\_\_ Date: \_\_\_\_\_

**Chemistry: Properties**

Recall that *physical properties* can be observed without producing new substances. *Chemical properties* describe how a substance interacts with other substances to produce new substances. *Extensive properties* depend upon the amount of matter in the sample; *intensive properties* do not.

Directions, Part 1: Classify each of the properties listed below as extensive or intensive. Then classify each property as physical or chemical. Write the word out to earn full credit.

<b>Property</b>	<b>Extensive or Intensive Property</b>	<b>Physical or Chemical Property</b>
color		
combustibility		
hardness		
density		
mass		
melting point		
ductility		
volume		
reactivity with acid		
odor		
weight		
malleability		
tendency to corrode		

Directions, Part 2: Some measurements or descriptions of properties are listed below. Write which property is being described in each case. Select properties that are listed in the table from Part 1.

- |  |          |
|--|----------|
| A. 15 dm <sup>3</sup>                                    | A. _____ |
| B. can easily be hammered into sheets                    | B. _____ |
| C. 2.8 g/cm <sup>3</sup>                                 | C. _____ |
| D. burns when heated in the presence of O <sub>2</sub>   | D. _____ |
| E. shiny metal forms a chalky white layer on its surface | E. _____ |
| F. can be scratched by a diamond                         | F. _____ |
| G. 500°C   | G. _____ |
| H. can easily be drawn into a wire                       | H. _____ |