ribe how a substance intera nd upon the amount of matt	er in the sample; intensive properties	new substances. Extensive propertie
	Extensive or Intensive Property	
color	Порону	Troporty
combustibility		
hardness		
density		
mass		
melting point		
ductility		
volume		
reactivity with acid		
odor		
weight		
malleability		
tendency to corrode		
	rements or descriptions of properties case. Select properties that are liste	s are listed below. Write which properted in the table from Part 1.
A. 15 dm ³		A
B. can easily be hammered into sheets		В
C. 2.8 g/cm ³		C

D. _____

E. _____

F. _____

G. _____

G. 500°C

D. burns when heated in the presence of $\ensuremath{\text{O}}_2$

F. can be scratched by a diamond

H. can easily be drawn into a wire

E. shiny metal forms a chalky white layer on its surface

Name:	KEY_
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.

<u>Directions, Part 1</u>: 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.

Property	Extensive or Intensive Property	Physical or Chemical Property		
color	intensive	physical		
combustibility	intensive	chemical		
hardness	intensive	physical		
density	intensive	physical		
mass	extensive	physical		
melting point	intensive	physical		
ductility	intensive	physical		
volume	extensive	physical		
reactivity with acid	intensive	chemical		
odor	intensive	physical		
weight	extensive	physical		
malleability	intensive	physical		
tendency to corrode	intensive	chemical		

<u>Directions, Part 2</u>: 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 ³	A	<u>volume</u>
B. can easily be hammered into sheets	В	malleability
C. 2.8 g/cm ³	C	density
D. burns when heated in the presence of O ₂	D	combustibility
E. shiny metal forms a chalky white layer on its surface	E	tendency to corrode
F. can be scratched by a diamond	F	hardness
G. 500°C	G	melting point
H. can easily be drawn into a wire	Н	ductility