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Per Table Review Study Guide

Part	1:	Vocabulary
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1.	Match each term with	n its correct definition. (8 points)
	alkali	a. Class of elements that do not conduct electricity.
	metals	b. Metal in group 1 of the periodic table that has one valence electron and is highly reactive.
	nonmetals	c. Class of elements that are good conductors of electricity.
	noble	d. Metal in group 2 of the periodic table that has two valence electrons and is very reactive but less so than an alkali metal.
	gases	e. Metal in groups 3 to 12 of the periodic table that is hard and shiny and less reactive than metals in groups 1 and 2.
	alkaline earth	f. Class of elements that have some properties of metals and some
	metals	properties of nonmetals. g. Nonmetal in group 17 of the periodic table that has seven valence
	halogens	electrons and is highly reactive. h. Nonmetal in group 18 of the periodic table that has eight valence
	metalloids	electrons (or two in the case of helium) and is unreactive.
	transition metals	
	metals	
2.	Match each term with	n its correct definition. (6 points)
	periodic law	 Column of the periodic table that contains elements with similar properties.
	periodic	b. the pattern of repeating properties displayed by elements in the periodic table
	table	Row of the periodic table that contains elements ranging from metals on the left to metalloids and then nonmetals on the right.
	atomic mass	d. Table of elements arranged by increasing atomic number (modern
	unit	periodic table) or by increasing atomic mass (Mendeleev's periodic table).
	reactivity	e. SI unit for the mass of an atom, where 1 amu = the mass of a proton (about 1.7 \times 10-24 g).
	period	f. ability of matter to combine chemically with other substances
	group	
Parl	2: HISTORY OF THE	PERIODIC TABLE
3.	Mendeleev was the fi increasing	rst to organize the elements into a periodic table and ordered them by (1 point)
4.	The modern periodic	table is organized by increasing (1 point)
5.	From his table, Mend have not yet been di	
	t 3: Classifying Elemen	ats For each of the following, classify the element as a metal, nonmetal
6.	Hydrogen (1 point)	
	Metal Nonmetal	
	Metalloid	
7.	Sodium (1 point)	
	Metal	
	Nonmetal	
	Metalloid	
8.	Copper (1 point)	
	Metal	
	Nonmetal Metalloid	
9.	Silicon (1 point) Metal	

	NonmetalMetalloid
10.	Chlorine (1 point) Metal Nonmetal Metalloid
11.	Chlorine is a (1 point) Metal Nonmetal Metalloid
12.	Strontium (1 point) Metal Nonmetal Metalloid
13.	Germanium is a (1 point) Metal Nonmetal Metalloid
14.	Argon (1 point) Metal Nonmetal Metalloid
15.	Copper is a (1 point) Metal Nonmetal Metalloid
16.	Mercury (1 point) Metal Nonmetal Metalloid
17.	Iodine (1 point) Metal Nonmetal Metalloid
18.	Antimony (1 point) Metal Nonmetal Metalloid
19.	Francium (1 point) Metal Nonmetal Metalloid
20.	The reactivity of metallic elements on the periodic table tends to from left to right across the periodic table (1 point)
21.	The pattern of repeating properties from row to row as shown in the periodic table is known as (1 point)
22.	Most of the elements on the periodic table are classified as (1 point)
23.	Elements in the same group have similar (1 point)

24. From left to right on the periodic table, elements become less ____

___ in their

properties. (1 point) are the horizontal rows on the periodic table. (1 point) ___ are the vertical columns on the periodic table (1 point) 27. Elements on the periodic table can be classified as metals, nonmetals and Part 4: Representative Groups 28. Match each group with its correct name. (6 points) ___ Group 17 a. Groups containing at least one metalloid b. Alkaline Earth Metals __ Group 2 c. Halogens d. Noble Gases __ Groups 3-12 e. Alkali Metals f. Transition Metals _ Group 1 ___ Group 18 Groups 13-16 29. Match the element with the group that it belongs to. (7 points) _ Nitrogen a. Group 13 b. Group 15 Cobalt c. Transition Metal d. Halogens _ Aluminum e. Noble Gases f. Alkali Metals Sodium g. Alkaline Earth Metals Calcium ___ Iodine __ Argon 30. Group ____ ___ are the most reactive metallic elements on the periodic table. (1 point) ○ 1 Alkali Metals O 7 Halogens 0 8 Noble Gases 2 Alkaline Earth Metals ____ are the most unreactive elements on the periodic table. (1 point) 1 Alkali Metals O 7 Halogens 0 8 Noble Gases 2 Alkaline Earth Metals 32. Noble gases are _____. (1 point) stinky, bright and reactive O colorless, odorless and unreactive extremely dangerous unreactive, colorless and have a strong scent. _ is the most reactive element on the periodic table. (1 point) Francium O Lithium Astatine

Hydrogen