## **Chapter 2 Study Guide**

<u>Le</u>	sson 6 Questions			
1.	Describe the difference between an element and a compound.			
2.	What is meant by physical form?			
3.	How many elements are included in the chemical formula for sodium nitrate, NaNO <sub>3</sub> ? Name them			
4.	What is the difference between NaOH(s) and NaOH(aq)?			
5.	You see a ring that looks like a diamond but wonder why it's so cheap. The jeweler says the stone is a type of diamond called cubic zirconia. How can chemical symbols show that cubic zirconia is not a diamond?			
6.	You find two containers on a chemical shelf, one labeled $Cu_2O(s)$ and a second labeled $CuO(s)$ . Are these substances the same or different? Explain.			
7.	<u>Lesson 9 Questions</u> List three properties of the elements that are useful in sorting the elements.			
8.	Do you expect carbon (C) to be more similar to nitrogen (N), oxygen (O), or silicon (Si). Why?			
9.	Suppose you have equal amounts of calcium (Ca) in two beakers. In one beaker, you react the calcium with oxygen (O). In the other beaker, you react the calcium with sulfur (S). The reaction with oxygen forms the compound CaO.			

u.	between calcium and sulf	e chemical formula of the compound fur?	formed from the reaction
b.	_	ore mass, the compound containing cal cium and sulfur? Explain your thinking	
	Ouestions Tibe how reactivity changes	s as you go down Group 1A.	
11. Choo	se two different properties	and describe how they vary across a p	period.
12. You v	halogens, and the noblat the top.)	periodic table. e, clearly label the alkali metals, the al le gases. (If you wish, you may color elements, the transition elements, and	them and provide a color ke
13. Name	<ul><li>a. On your periodic table halogens, and the noble at the top.)</li><li>b. Label the main group</li></ul>	e, clearly label the alkali metals, the al le gases. (If you wish, you may color	them and provide a color key the lanthanides and actinides
13. Name masse	<ul><li>a. On your periodic table halogens, and the noble at the top.)</li><li>b. Label the main group at two elements that have presented to the property of the top.</li></ul>	e, clearly label the alkali metals, the alle gases. (If you wish, you may color elements, the transition elements, and roperties similar to those of beryllium	them and provide a color key the lanthanides and actinides
13. Name masse 14. Whic	<ul> <li>a. On your periodic table halogens, and the noble at the top.)</li> <li>b. Label the main group to two elements that have present higher than 130.</li> <li>h of these elements are soling.</li> <li>a. Fluorine (F)</li> </ul>	e, clearly label the alkali metals, the alle gases. (If you wish, you may color elements, the transition elements, and roperties similar to those of beryllium id at room temperature?  c. Lead (Pb) d. Oxygen (O)	them and provide a color key the lanthanides and actinides (Be) and have average atomic
13. Name masse 14. Whic	<ul> <li>a. On your periodic table halogens, and the noble at the top.)</li> <li>b. Label the main group to two elements that have present higher than 130.</li> <li>h of these elements are soli a. Fluorine (F)</li> <li>b. Titanium (Ti)</li> <li>h of these elements are non a. Bromine (Br)</li> </ul>	e, clearly label the alkali metals, the alle gases. (If you wish, you may color elements, the transition elements, and roperties similar to those of beryllium did at room temperature?  c. Lead (Pb) d. Oxygen (O)  nmetals? c. Boron (B)	them and provide a color key the lanthanides and actinide (Be) and have average atomi  e. Potassium (K) f. Silicon (Si)  e. Phosphorus (P)
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