Name	Class	Date
Skills Worksheet		
<b>Directed Read</b>	ing A	
Section: Grouping t	he Elements	
<ul><li>a. the same ator</li><li>b. the same num</li><li>c. the same num</li></ul>	nents in a family or group s mic mass nber of protons in their nu nber of electrons in their o nber of total electrons	clei
GROUP 1: ALKALI METALS	S	
<ul><li>a. They can be on</li><li>b. They are usuan</li><li>c. They are the on</li></ul>	lowing is NOT true of alkacut with a knife. ally stored in water. most reactive of all the me ily give away their outer el	etals.
3. Metals that share both p		
<ul><li><b>GROUP 2: ALKALINE-EAR</b></li><li><b>4.</b> Atoms of</li><li><b>5.</b> What are two products</li></ul>	have two ou	
6. In what way does calciu	um help you?	
7. Name three alkaline-ear	rth metals besides calcium	1.

Name	Class	Date		
Directed Reading A continued				
GROUPS 3-12: TRANSITION N	ИETALS			
<ul> <li>8. Which of the following characteristics does NOT describe transition metals?</li> <li>a. They are good conductors of thermal energy.</li> <li>b. They are more reactive than alkali and alkaline-earth metals.</li> <li>c. They have one or two electrons in the outer energy level.</li> <li>d. They are denser than elements in Groups 1 and 2.</li> <li>9. Metals that are less reactive than alkali metals and alkaline-earth metals are</li> </ul>				
called		netals?		
<ul><li>11. Two rows of transition metato save space. Elements in the Elements in the second row</li><li>12. Which lanthanide forms a computer screen?</li></ul>	he first row are calle	d		
13. Which actinide is used in sor	me smoke detectors?			
GROUP 13: BORON GROUP  14. Why did Emperor Napoleon	III of France use alu	minum dinnerware?		
15. What are some of the uses of	f aluminum?			

Nai	me Class Date					
_	Directed Reading A continued					
GR	OUP 14: CARBON GROUP					
16.	The metalloids,					
	both in Group 14, are used to make computer chips.  7. What are three compounds of carbon that are necessary for living things on Earth?					
17.						
18.	The hardest material known is					
19.	What are some of the uses of diamond?					
≀0.	What form of carbon is used as a pigment?					
GR(	OUP 15: NITROGEN GROUP					
21.	Nitrogen is a at room temperature.					
22.	Each element in the Nitrogen Group has electrons					
	in the outer level.					
3.	Nitrogen from the air can react with what element to make ammonia for fertilizer?					
GRO	OUP 16: OXYGEN GROUP					
24.	How is oxygen different from the other four elements in Group 16?					
5.	The element can be found as a yellow solid in					
	nature and is used to make sulfuric acid.					
6.	Why is oxygen important?					

Name	Class	Date
Directed Reading A continue		
GROUP 17: HALOGENS		
<b>27.</b> The atoms of	need to gai	n only one electron to
have a complete outer leve	el.	
28. What important use do the	e halogens iodine and chlo	rine have in common?
<b>29.</b> Halogens combine with m		, such
<b>30.</b> How does chlorinating wa		
<ul><li>a. They are colorle</li><li>b. They have a com</li><li>c. They normally re</li></ul>	ving statements about nobess and odorless at room templete set of electrons in the eact with other elements. Found in Earth's atmospher	emperature. heir outer energy level.
	have a full s	
<b>33.</b> The lowballoons float.	of helium makes	blimps and weather
HYDROGEN		
<ul><li>a. It is useful as roo</li><li>b. It is the most about</li><li>c. Its physical proposition those of metals.</li></ul>	ving statements about hydroket fuel. undant element in the univerties are closer to those cons in its outer energy leve	verse. of nonmetals than to