Name _		Class	Date
Skills	s Worksheet)		
Di	rected Readi	ng B	
Sect	ion: Grouping th	ne Elements (pp. 202-	209)
the same valence electron :	a. the same atom b. the same numb	per of protons in their nu per of electrons in their o	ıclei
<mark>d.</mark>	a. Their atoms hab. Their atoms hac. Their atoms ha	nents reactive at the atom ave the same number of p ave the same number of p ave the same number of e ke, give, or share electro	neutrons. protons. electrons.
GROU	IP 1: ALKALI METALS		
b. 4. El	a. They can be cub. They are usualc. They are the md. They can easily	owing is NOT true of alkant with a knife. Ily stored in water. The stored in water all the many give away their outer-less the periodic table are call	etals. evel electron.
	etals.	The periodic tube of the con-	
5. At	oms of Alkaline-Earth are two products not cold school chalk is made of	metals have	two outer-level electrons. ounds?
	Marble is metamorphic lim	estone (also calcium carbonate	<mark>∍)</mark>
7. In	what way does calciu	m help you?	
	Bones and teeth are made of Calcium ions help your must		
8. Na	me three alkaline-eart Be - Beryllium Mg - Magnesium Sr - Strontium	h metals besides calcium	n.

Name	Class	I	Oate
Directed Reading B continued			
0			
GROUPS 3-12: TRANSITION N	ЛETALS		
b. 9. Which of the followi	ng characteristics de	oes <mark>NOT</mark> desc	cribe transition
metals?	1.9 01.010.0001.00100 0.	3 6 2 4 6 2 G	0110 0 01011010101
a. They are good con			.1
b. They are more react. They have one or			
d. They are denser the		٠.	y level.
10. Metals that are less reactive	than alkali metals a	and alkaline-e	earth metals are
calledtransition	metals.		
11. The two rows of transition	metals that are place	ed at the bott	om of the
periodic table to save space	are called the	anthinides	and
Actinides			
tne		4 - 1 - 0	
12. How is mercury different from Mercury is a liquid at room ter		metais?	
- Increary is a figure at room ter	ilperature.		
GROUP 13: BORON GROUP			
13. The most common element	from Group 13 and	the most abu	ındant metal
in Earth's crust is <mark>aluminum</mark>	<u> </u>		
14. What are some of the uses of	of aluminum?		
It is a lightweight non-corrosive	motel		
Very good for building airplanes.			
soda cans, bicycles. Aluminum f cooking.	oil,		
COOKING.			
GROUP 14: CARBON GROUP			
15. What are three compounds	of carbon that are n	ecessary for	living things
on Earth?			
Sugar C6H12O6 Carbon Dioxide, C0	02		
Proteins and fats a	<mark>nd</mark>		
nucleic acids			
16 The metalloids Silicon		Cermanium	
10. The metanolus	and _	Germanium	,
both in Group 14, are used t	to make computer cl	hips.	

Name	Class	Date	
Directed Reading B continued			
17. The hardest material known is 18. What are some of the uses of as a jewel because it is sparkly	diamond?	o <mark>f pure carbon)</mark>	
and as a cutting tool, for hard surfaces like cement.			
19. What form of carbon is used a Soot, it is like condensed ashes.	1	ints and crayons?	
GROUP 15: NITROGEN GROUP			
20. Nitrogen is a(n) <mark>gas</mark>	_	oom temperature.	
21. Each element in the nitrogen as in the outer level.	group has <mark>5</mark>		electrons
22. Nitrogen from the air can reac fertilizer? hydrogen	et with what elem	_	nia for
GROUP 16: OXYGEN GROUP 23. How is oxygen different from Oxygen is a gas at room temperate necessary for things to burn.		ements in Group 16?	,
nature and is used to make su 25. Why is oxygen important?		found as a yellow so	olid in
Oxygen is necessary to react with a for it to burn. Even life needs oxygen to burn sug		o allow	
GROUP 17: HALOGENS 26. The atoms ofHalogens have a complete outer level.	need t	o gain only one elec	tron to

The Periodic Table

Name Date
Directed Reading B continued
27. What important use do the halogens iodine and chlorine have in common? Chlorine is used to treat water to kill the bacteria in it like swimming pools, lodine is mixed with alcohol to in hospitals to kill the bacteria in wounds.
28. Halogens combine with most metals to forma salt, such assodium chloride.
GROUP 18: NOBLE GASES
a. They are colorless and odorless at room temperature. b. They have a complete set of electrons in their outer energy level. c. They normally react with other elements. d. All of them are found in Earth's atmosphere in small amounts. 30. Noble gases were first called
 a. It is useful as rocket fuel. b. It is the most abundant element in the universe. c. Its physical properties are closer to those of nonmetals than to those of metals. d. It has two electrons in its outer energy level.