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me	_ Date	Class
ements and the Periodic Table	Guided Readir	ng and Study
onmetals and Meta	alloids	
is section describes the properties of t tals.	he elements in the p	eriodic table that are not
e Target Reading Skills		
ore you read, write what you know o . As you read, write what you learn	about nonmetals and in the bottom box.	d metalloids in the top
Wha	at You Know	
. Nonmetals are not shiny.		
2.		
3.		
4.		
5.		
What	t You Learned	
_		
2.		
3.		
4.		
•		
5.		

1.	The elements that lack most of the properties of metals are called
	·
2.	Where are the nonmetals located on the periodic table?
	•

Nar	me	_ Date	Class	
Ele	ments and the Periodic Table	Guided Rea	ding and Study	
No	onmetals and Metallo	oids (continu	રત)	
3.	Is the following sentence true or gases at room temperature.			
4.	Circle the letter of each sentence properties of nonmetals. a. Solid nonmetals are brittle. b. They usually have lower dented. c. Most are shiny. d. They are good conductors of	nsities than me	tals.	
5.	Except for the Group 18 elemen	nts, most nonm	etals readily form	
Far	milies of Nonmetals			
6.	Circle the letter of the number of family can gain, lose, or share.	of electrons tha	t an atom in the carbo	n
	a. 1 c. 5	b. 4d. 6		
7.	All living things contain what k	ind of compou	nds?	
8.	Circle the letter of the number of family usually gains or shares.	of electrons tha	t an atom in the nitrog	gen
	a. 2	b. 7		
	c. 5	d. 3		
9.	The atmosphere is almost 80 percent			
10.	. A molecule composed of two identical atoms is called a(n)			
11.	Circle the letter of the number of electrons that an atom in the oxygen family usually gains or shares.			
	a. 6	b. 7		
12	c. 5 Circle the letter of each sentence	d. 2	out oyygen	
± 4•	a. The oxygen you breathe is a ob. Oxygen rarely combines withc. Oxygen is the most abundan	diatomic mole h other elemen	cule. ts.	

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d. Ozone (O₃) collects in a layer in the upper atmosphere.

Naı	me	Date	Class		
Elements and the Periodic Table • 0		ble • Guided Read	ding and Study		
13.	Circle the letter of the num family usually gains or shall a. 4 b. 1 c. 6 d. 3		an atom in the halogen		
14.	4. Is the following sentence true or false? Uncombined halogens are dangerous to humans				
16.	 5. Circle the letter of each sentence that is true about the noble gases. a. They exist in large amounts in the atmosphere. b. They are chemically unreactive. c. They readily gain, lose, or share electrons. d. They are used in glowing electric lights. 6. Complete the table about families of nonmetals. 				
Fa	mily	Group Number	Nonmetals in Family		
a.	Carbon family				
b.	Nitrogen family				
c.	Oxygen family				
d.	Halogen family				
e.	Noble gases				
17.	How many protons and el	ectrons does a hydro	gen atom have?		
18.	Why can't hydrogen be gr	ouped in a family?			

Nar	me	Date	Class
Ele	ments and the Periodic Table •	Guided Reading and Stud	ly
No	onmetals and Metallo	ids (continued)	
The	e Metalloids		
19.	What are metalloids?		
20.	What is the most common metal	loid?	
21.	Vhat is the most useful property of the metalloids?		
22.	What are semiconductors?		