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Name	_ Date	Class	
Elements and the Periodic Table	nents and the Periodic Table • Guided Reading and Study		
Nonmetals and Meta	alloids		
This section describes the properties of t metals.	he elements in the p	eriodic table that are not	
Use Target Reading Skills			
Before you read, write what you know o box. As you read, write what you learn		d metalloids in the top	
Wha	at You Know		
I. Nonmetals are not shiny.			
2.			
3.			
4.			
5.			
What	t You Learned		
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4.			
5.			
Properties of Nonmetals			
1. The elements that lack most of	the properties of 1	metals are called	

Naı	me	Date	Class	
Ele	Elements and the Periodic Table • Guided Reading and Study			
No	onmetals and Metalloids	(continued)		
3.	3. Is the following sentence true or false? Many of the nonmetals are gases at room temperature			
4.	. Circle the letter of each sentence that is true about the physical properties of nonmetals.			
	 a. Solid nonmetals are brittle. b. They usually have lower densities than metals. c. Most are shiny. d. They are good conductors of both heat and electricity. 			
5.	Except for the Group 18 elements, most nonmetals readily form			
Far	Families of Nonmetals			
6.	6. Circle the letter of the number of electrons that an atom in the carbon family can gain, lose, or share.			
	a. 1 c. 5	b. 4 d. 6		
7.	7. All living things contain what kind of compounds?			
8.	Circle the letter of the number of electrons that an atom in the nitrogen family usually gains or shares.			
	a. 2 c. 5	b. 7 d. 3		
9.	The atmosphere is almost 80 perce	ent	·	
10.	. A molecule composed of two 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 c. 5	b. 7d. 2		
12.	 a. The oxygen you breathe is a dia b. Oxygen rarely combines with o c. Oxygen is the most abundant el d. Ozone (O₃) collects in a layer in 	ntomic molecule. ther elements. lement in Earth's crust.		

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Nar	ne		Date	Class
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13.	 3. Circle the letter of the number of electrons that an atom in the halogen family usually gains or shares. a. 4 b. 1 c. 6 d. 3 			
14.	. Is the following sentence true or false? Uncombined halogens are dangerous to humans			
15.	 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. 			
16.	Complete the table about f	families	s of nonmetals.	
No	nmetals			
Fa	mily	Grou	p Number	Nonmetals in Family
a.	Carbon family			
b.	Nitrogen family			
c.	Oxygen family			
d.	Halogen family			
e. Noble gases				
17. How many protons and electrons does a hydrogen atom have?				
18.	Why can't hydrogen be grouped in a family?			

Nar	me	Date	Class
Ele	ments and the Periodic Table •	Guided Reading and Stud	у
No	onmetals and Metalloids	(continued)	
The	2 Metalloids		
19.	What are metalloids?		
20.	What is the most common metall	loid?	
21.	What is the most useful property	of the metalloids?	
22.	What are semiconductors?		