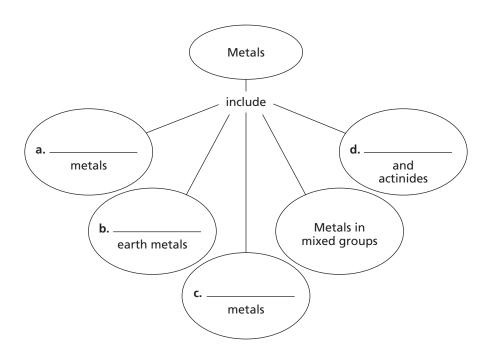
Name	Date	Class
Elements and the Periodic Ta	ble • Reading/Note	etaking Guide
<b>Metals</b> (pp. 138–141)		
This section describes the propert groups of metals.	ies of metals and the char	acteristics of the different
Use Target Reading Skill	S	
Before you read, preview Figure To organizer by writing two question questions.		
	Properties of Metals	
Q. What metals are attracte	d to magnets?	
Α.		
Q.		
A.		
Properties of Metals (pp  1. Chemists classify an element		n its physical and
chemical	·	1 7
<b>2.</b> Circle the letter of the prometals.	perty that is NOT a ph	ysical property of
<ul><li>a. shininess</li><li>c. brittleness</li></ul>	<ul><li>b. malleab</li><li>d. conduct</li></ul>	2

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Mai	tch the term with its defi	nitio	n.			
	Term		Definition			
	3. malleable 4. ductile	a.	The ease with which an elements and compound	element combines with other ds		
5. conductivity	b.	The ability of an object to transfer heat or electricity to another object				
	<b>6.</b> reactivity	c.	A term used to describe a material that can be pulled out, or drawn, into a long wire			
			A term used to describe a material that can be ham- mered or rolled into flat sheets and other shapes			
7.	Some metals aremagnets or can be ma		; they and the magnets.	are attracted to		
8.	Is the following sente temperature.		true or false? Most metal	s are solids at room		
9.	The slow destruction air is called		metal through its reaction	n with oxygen in the		
Me	tals in the Periodi	c Ta	<b>ble</b> (pp. 140-144)			
10. How does the reactivity of each group of metals change across the table from left to right?						
11.	<ol> <li>Circle the letter of each sentence that is true about alkali metals.</li> <li>a. They are never found as uncombined elements.</li> <li>b. They react with other elements by losing one electron.</li> <li>c. They are often found as pure elements in sea water.</li> <li>d. They are slightly reactive.</li> </ol>					
12.	2. What are the two most important alkali metals?					

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Metals (continued)							
<ul> <li>a. Each is a good conductor of electricity.</li> <li>b. They are never found uncombined in nature.</li> <li>c. They lose two electrons in chemical reactions.</li> <li>d. They are much less reactive than most metals.</li> </ul>							
4. What are the two most common alkaline earth metals?							
<ul><li>a. gold</li><li>b. lithium</li><li>c. copper</li><li>d. iron</li></ul>	ent that is a transiti	on metal.					
Is the following sentence true or false? The transition metals are less reactive than the metals in Groups 1 and 2.							
Is the following sentence true or false? All of the elements in Groups 13 through 15 are metals.							
. Where are the lanthanides placed on the periodic table?							
<b>19.</b> Where are the actinides foun	d on the periodic ta	able?					
<b>20.</b> Which element is the heavies	st actinide that occu	urs naturally on Earth?					

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**21.** Complete the concept map about metals.



## **Synthetic Elements** (pp. 144–145)

- 22. Uranium has an atomic number of 92. How were all the elements with atomic numbers higher than 92 created?
- 23. What was the first synthetic element to be made by colliding nuclei in a particle accelerator?
- 24. Is the following sentence true or false? It is easier to synthesize new elements with very large atomic numbers.