Name .		Class	Date			
Skills	s Worksheet					
Di	rected Readin	g B				
	100000 110000111	-o -				
Sect	Section: Arranging the Elements (pp. 194-201)					
1. W		ts might have been frust	rated by the organization of			
_	and the chemical properties					
	Scientist only knew that son nonmetals, some were metals	<mark>ne were gases, some were me</mark> alloids.	tals, and some were			
	They only organized the ele	ments according to chemical p				
	They thought that the mass	had nothing to do with their pr	орепіеѕ.			
DISCO	OVERING A PATTERN					
d.	repeating pattern o a. elements in orde b. elements in orde	t of elements did Mende of properties? er of increasing density er of increasing melting p er of increasing shine				
		er of increasing atomic n				
	word describing someth	ing that occurs or repea	ts at regular intervals			
is			ing following a pattern that			
	peats every seven eleme	nerio	ies following a pattern that			
tal	ble of the elements.					
	ow was it possible that Mements that no one knew	Mendeleev was able to prove about?	redict the properties of			
	He knew from playing solitaire	e (an organizing card game)				
	_	nts into groups (columns would perties). In doing so, he noticed				
	repeating patterns he called p	periods were the horizontal inc	<mark>rease</mark>			
	group (column) and share the	sing element would belong to e column's properties.	a			

Name	Class	Date			
Directed Reading B continued					
CHANGING THE ARRANGEMEN	т				
pattern according to the carranged the country b. He discovered protocountry the pattern according to the pattern accordi	neir properties? elements by atomic ons, neutrons, and e periodic table of ele elements' atomic nu	electrons.			
aa					
a. in order of increasingb. in order of decreasingc. in order of increasingd. in order of decreasing	ng atomic number ng density				
PERIODIC TABLE OF THE ELEMENTS 2. 8. Which information is NOT included in each square of the periodic table in your text? a. atomic number b. chemical symbol c. melting point d. atomic mass					
9. How can you tell on the periodentemperature?					
The color of the chemical syml according the key on pg.196, a magenta is a solid at room terr	any symbol in the color				
THE PERIODIC TABLE AND CLASSES OF ELEMENTS 10. Elements are classified as metals, nonmetals, or metalloids, according to					
their background square color	tais, normetais, or	metanoius, according to			
11. The number of	III WIC	outer energy level of an atom			
12. How can the zigzag line on the elements?	e periodic table hel				
Metals are found on the left side on the right side of the right side on the right side of the right s					

Name	Class	Date
Directed Reading B continued		
13. Most elements aremetals of the zigzag line on the period		ich can be found to the left
solid	at roo	m temperature.
15. What metal is a liquid at room Hg = mercury	temperature?	
16. What elements are found to the nonmetals	e right of the zigzag	g line on the periodic table?
17. Semimetals, also calledme border the zigzag line on the pe		, are the elements that
DECODING THE PERIODIC TABLE 18. Some elements, such as	tienium	_, are named after scientists.
Others, such asCalifornium]	med after places.
19. For most elements, the _	<mark>cal symbol</mark>	has one or two letters, with
the first letter always capitalize 20. Each horizontal row of elemen		ahla is callad a(n)
period	is on the periodic (able is called a(11)
21. Each vertical column of elements group, or a	family	table is called a(n)
22. Which elements often h a. elements in a period b. elements in a group c. elements named afte d. elements in a horizon	r places	ties?
across each period 23. The physical and chemical and within a group. b. within a family. c. across each period. d. across each group.	cal properties of th	ne elements change
and physical properties of elen numbers of the elements.		t the repeating chemical dically with the atomic