Name	Class	Date
Skills Worksheet		
D ' ()	D 1' A	
Directed	Reading A	
Section: Arrano	ging the Elements	
		6 4 4 11 41 3 4 6
the elements before		frustrated by the organization of
the elements before	le 1009?	
DISCOVERING A PA	ATTERN	
2. Which arra	angement of elements did M	lendeleev find produced a
	pattern of properties?	product u
	easing density	
	easing melting point	
c. by incre	easing shine	
d. by incre	easing atomic mass	
3. When something	occurs or repeats at regular	intervals, it is called
4 M 1.1 2. 4.11.		
	_	roperties following a pattern that
epeats every sever	n elements, is called the	-
5. How was it possible elements that no o		e to predict the properties of

Name		Class	Date				
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Dire	ected Reading A continued						
CHA	NGING THE ARRANGEME	NT					
	6 How did Mossley soly	a tha nuahla	m of the elements that did not fit the				
			m of the elements that did not fit the				
	pattern according to their properties? a . He rearranged the elements by atomic mass.						
	C	•					
	b . He discovered protons, neutrons, and electrons.						
	c. He disproved the periodic law.						
	d . He determined the elements' atomic number and then arranged						
	them by atomic number.						
7. V	When the repeating chemical	and physica	l properties of elements change				
p	periodically with the elements' atomic numbers, it is called the						
_	·						
PER	IODIC TABLE OF THE ELE	MENTS					
	3. Which information is N	NOT include	ed in each square of the periodic				
	table in your text?	(OI morad	ou in each square of the periodic				
	a. atomic number		c. melting point				
	b. chemical symbol		d. atomic mass				
9 F	Iow can you tell on the period	dic table tha	t carbon is a solid at room				
	emperature?	iic table tha	t carbon is a sond at room				
· ·	imperature.						
_							
_							
_							
THE	PERIODIC TABLE AND CL	ASSES OF	ELEMENTS				
10. E	10. Elements are classified as metals, nonmetals, or metalloids according to their						
_	·						
11. T	he number	C	of in the outer energy level of an				
0	tom halps datarmina which a	otogory on (lament belongs in				
	atom helps determine which category an element belongs in.						
12. F	12. How can the zigzag line on the periodic table help you?						
_							
_							

Nan	ne	Class	Date		
D	irected Reading A continued	1			
			, of the , which can be found to		
14.	Most metals aredrawn into thin wires.		, which means that they can be		
	Most metals Most metals are malleable.				
17.	What metal is flattened into	sheets that a	are made into cans and foil?		
18.	8. What elements are found to the right of the zigzag line on the periodic table?				
19.	Semiconductors, also called		, are the elements that		
	border the zigzag line on the	e periodic tal	ole.		
DE	CODING THE PERIODIC T	ABLE			
	20. Which elements ofte a. those in a period b. those in a group	n share prop	erties? c. those with the same color d. those in a horizontal row		
	21. The physical and chea. within a group. b. within a family.	emical prope	•		
22.	For most elements, the		has one or two letters, with		
	the first letter always capital	lized.			
23.	Horizontal rows of elements	s on the perio	odic table are called		
24.	4. Vertical columns of elements on the periodic table are called, or				
25.			, are named after scientists.		
	Others, such as				