Name	Per
	Electron Configuration Practice Worksheet
In the	space below, write the unabbreviated electron configurations of the following elements:
1. soo	dium
2. ma	agnesium
3. iron	n
4. pot	tassium
5. sel	enium
In the	space below, write the abbreviated electron configurations of the following elements:
6. cok	palt
7. silv	/er
8. tell	urium
9. rad	dium
10. la	wrencium
Deter	mine what elements are denoted by the following electron configurations:
11. 19	s ² 2s ² 2p ⁶ 3s ² 3p ⁴
12. 1	$s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1$
13. [k	Kr] 5s ² 4d ¹⁰ 5p ³
	(e] 6s ² 4f ¹⁴ 5d ⁶
15. [F	Rn] 7s ² 5f ¹¹
Expla	in what is wrong with the following electron configurations:

1

- **16.** $1s^22s^22p^63s^23p^64s^24d^{10}4p^6$
- **17.** 1s²2s²2p⁶3s³3d⁵

Name

Chemistry | Practice - "Electron Configurations"

Use the following electron configurations and your periodic table to identify the element:

- **1.** 1s² 2s² 2p⁶ 3s² 3p⁵ **2.** 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² **3.** 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰4p¹
- 4. Describe the method that you used to solve problems 1 3. Be specific.

Use the following clues to identify the element. Show any figuring in the space below.

- 5. This element has a 3p sublevel that contains 3 electrons.
- **6.** This element has a 4s sublevel with 2 electrons for its outermost electrons.
- 7. This element has 1 electron in its 3d sublevel.
- 8. This element has 5 electrons in its 5p sublevel
- 9. This element has a completely filled 3p sublevel for its outermost electrons.
- 10. This element has 2 electrons in its 6p sublevel.

Name	Date	Period	

Electron Configuration Practice Worksheet

In the space below, write the $\underline{unabbreviated}$ electron configurations of the following elements:

1)	oxygen		
2)	sodium		
3)	iron		
4)	bromine		
5)	barium		
6)	nitrogen		
7)	chlorine		
8)	argon		
,	space below,	write the <u>abbreviated</u> electron configurations of the fo	llowing
9)	cobalt		
10)	silver		
11)	tellurium		
12)	iodine		
13)	cesium		
Deter	mine what ele	ments are denoted by the following electron configuration	ons:
14)	1s ² 2s ² 2p ⁶ 3s ² 3	p ⁴	
15)	1s ² 2s ² 2p ⁶ 3s ² 3	p ⁶ 4s ² 3d ¹⁰ 4p ⁶ 5s ¹	
16)	[Kr] 5s ² 4d ¹⁰ 5p	o ³	
17)	[Xe] 6s ² 4f ¹⁴ 5c		
18)	[Xe] 6s ²		
These	electron conf	igurations are NOT valid, determine what is wrong with	them:
19)		p ⁶ 4s ² 4d ¹⁰ 4p ⁵	
20)	1s ² 2s ² 2p ⁶ 3s ² 3	d ⁵	
21)			
22)	[۲۵]		