

Name _____ Date _____ Period _____

Atoms WS # 9: Orbital Representations and Electron Configurations

For each element provide the correct orbital representation. For each odd numbered problem provide the correct electron configuration.

INCREASING ENERGY LEVELS ----->>>

1. H Electron Configuration: _____
 1s 2s 2p 3s 3p 4s 3d 4p 5s

2. He
 1s 2s 2p 3s 3p 4s 3d 4p 5s

3. Be Electron Configuration: _____
 1s 2s 2p 3s 3p 4s 3d 4p 5s

4. B
 1s 2s 2p 3s 3p 4s 3d 4p 5s

5. C Electron Configuration: _____
 1s 2s 2p 3s 3p 4s 3d 4p 5s

6. N
 1s 2s 2p 3s 3p 4s 3d 4p 5s

7. Si Electron Configuration: _____
 1s 2s 2p 3s 3p 4s 3d 4p 5s

8. O
 1s 2s 2p 3s 3p 4s 3d 4p 5s

9. S Electron Configuration: _____
 1s 2s 2p 3s 3p 4s 3d 4p 5s

1s	2s	2p	3s	3p	4s	3d	4p	5s

1s 2s 2p 3s 3p 4s 3d 4p 5s

12. F

1s	2s	2p	3s	3p	4s	3d	4p	5s
_____	_____	_____ _____ _____	_____	_____ _____ _____	_____	_____ _____ _____ _____	_____ _____ _____	_____

13. Cl Electron Configuration: _____
 1s 2s 2p 3s 3p 4s 3d 4p 5s

14. Na

1s	2s	2p	3s	3p	4s	3d	4p	5s

[illegible]

16. Zn

1s	2s	2p	3s	3p	4s	3d	4p	5s
_____	_____	_____ _____ _____	_____	_____ _____ _____	_____	_____ _____ _____ _____ _____	_____ _____ _____	_____

17. Mn Electron Configuration:

1s	2s	2p	3s	3p	4s	3d	4p	5s
_____	_____	_____ _____ _____	_____	_____ _____ _____	_____	_____ _____ _____ _____ _____ _____	_____ _____ _____	_____

18. Cr NOBLE GAS ELECTRON CONFIGURATION:

1s	2s	2p	3s	3p	4s	3d	4p	5s
_____	_____	_____ _____ _____	_____	_____ _____ _____	_____	_____ _____ _____ _____ _____ _____	_____ _____ _____	_____

19. Cu Electron Configuration:

1s	2s	2p	3s	3p	4s		3d		4p	5s
_____	_____	_____ _____ _____	_____	_____ _____ _____	_____		_____ _____ _____ _____ _____ _____ _____ _____		_____ _____ _____	_____