

Name _____ Period _____ Date _____

Orbital Diagrams, Electron Configuration, and Lewis Dot Diagram Worksheet:

Directions: Using the Periodic Table, first give the number of protons and electrons in the neutral atom of the given element. On the line above the brackets, write the electron configuration for each element. Below the line, fill in the Orbital Diagram with the distribution of the electrons around the nucleus of the atom. Finally, provide a Lewis Dot Diagram for each element.

Electron Configuration:	1s	2s	2p	3s	3p	4s	3d	Lewis Dot Diagram:
Orbital Diagram:	(the little brackets underneath the line)							
Atom #p #e	1s	2s	2p	3s	3p	4s	3d	
Be _____	[]	[]	[][]	[]	[][]	[]	[][][]	
N _____	[]	[]	[][]	[]	[][]	[]	[][][]	
Ne _____	[]	[]	[][]	[]	[][]	[]	[][][]	
Na _____	[]	[]	[][]	[]	[][]	[]	[][][]	
P _____	[]	[]	[][]	[]	[][]	[]	[][][]	
S _____	[]	[]	[][]	[]	[][]	[]	[][][]	
Ca _____	[]	[]	[][]	[]	[][]	[]	[][][]	
Sc _____	[]	[]	[][]	[]	[][]	[]	[][][]	
Fe _____	[]	[]	[][]	[]	[][]	[]	[][][]	
Ni _____	[]	[]	[][]	[]	[][]	[]	[][][]	
Zn _____	[]	[]	[][]	[]	[][]	[]	[][][]	