



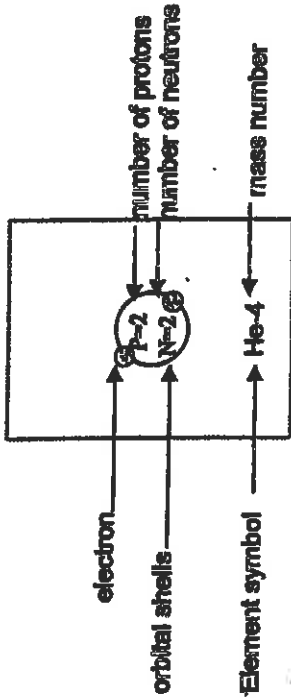


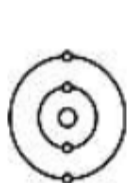
BOHR DIAGRAM WORKSHEET

NAME: _____

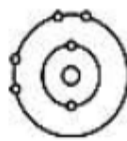
Draw and complete the following Bohr Diagrams for the first twenty elements. Some have been set-up for you. Label the families and number of valence electrons in each group.

 <p>H-1</p>	 <p>Li-7</p>	 <p>Ne-23</p>	 <p>K-39</p>	 <p>electron</p> <p>orbital shells</p> <p>Element symbol</p> <p>number of protons</p> <p>number of neutrons</p> <p>mass number</p>	<p>B-11</p> <p>C-12</p> <p>N-14</p> <p>O-16</p> <p>F-19</p> <p>Ne-20</p>	<p>Al-27</p> <p>Si-28</p> <p>P-31</p> <p>S-32</p> <p>Cl-35</p> <p>Ar-40</p>	<p>Mg-24</p> <p>Ca-40</p>
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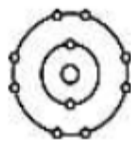
Identify the elements whose Bohr model diagrams are shown below. Write the names of the elements on the space provided. Then write the number of valence electrons.



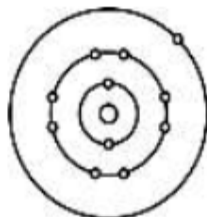
(a)



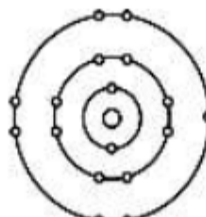
(b)



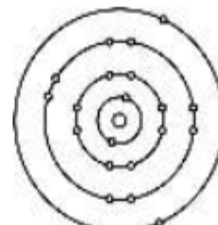
(c)



(d)



(e)



(f)

(a) _____

(b) _____

(c) _____

(d) _____

(e) _____

(f) _____

Lewis Structures of Atoms

1. Identify the Number of Valence Electrons and Draw the Lewis Dot Structure

Element	Group Number (use Periodic Table)	# of Valence Electrons	Lewis Dot Structure
Calcium			
Carbon			
Hydrogen			
Helium			
Oxygen			
Fluorine			
Neon			
Sodium			
Aluminum			

Complete the chart using the Periodic Table

Element	Symbol	Number	Mass	Protons	Electrons	Neutrons	Lewis Dot
Oxygen							
Magnesium							
Potassium							
Beryllium							
Fluorine							
Neon							
Carbon							
Silicon							
Nitrogen							

Name: _____


Block: _____


Date: _____


Science 10


Bohr Models & Lewis Structures


1. Complete the following Bohr & Lewis diagrams.


B	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure B	


Li	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure Li	


Ne	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure Ne	


He	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure He	

C	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure C	

P	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure P	

S	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure S	

Mg	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure Mg	

H	P = ____
_____	N = ____
_____	E = ____
Bohr Diagram	
	
Lewis Structure H	