Name:		Date:	Period:				
• Atoms are so small	that the number of them in a ba	seball is roughly equal to	the number of				
	g as the						
		1					
Because atoms are	so small, it is difficult to create		_				
	of what atoms actuall	y look like.					
Instead, scientists c	reate		that are used to				
explain the ways at	oms interact.						
One useful concept	ual model of the atom is						
atomic model.							
This model consists	s of a central	surrounded by	electrons traveling in certai				
		, much like the pla	nets circling the sun.				
There are	There are different energy levels, each represented by a						
	(horizontal row) on th	ne periodic table.	ST.				
In the Bohr model,	each	can only hold a					
	certain number of ele	ctrons, just like each perio	od can only hold a certain				
number of							
Fill in the requested inf	Formation below:						
Period	Number of Elements	Energy Level	Maximum Number of Electrons				

1.	lithium	2.	boron		3. nitrogen			
4.	neon	5.	sodium		6. carbon			
•	The of and chemical properties.			of the electrons signific	cantly affect			
•	Specifically, it is the with other atoms.		(outermost) ele	ctrons that affect how a	n atom will interact			
•	Atoms are most stable when they have	ve		valance shells.				
•	The elements that naturally have full valence shells are the							
•	Other elements will gain, lose, or share electrons during chemical reactions in order to get this							
•	Notice, elements in the samehave the same number of							
•	The group the element is found in on	ne group the element is found in on the periodic table can also help us to predict how many electrons						
	the element will gain, lose, or share during a chemical .							

Draw Bohr models for the following atoms:

Group	Valence Electrons	Add Electrons	Lose Electrons				
The valence electrons are the only electrons that affect theof an atom.							
• A more simple model, the							
Draw Lewis Dot Structures for the following atoms:							
1. lithium	2. boron		3. nitrogen				
4. neon	5. sodium	n	6. carbon				