Name:	Block: Date:
Electron Arrangements	
OBJECTIVES: • Write electron configurations • Write orbital filling diagrams • Write lewis dot diagrams	
DIRECTIONS: For each of the listed elements complete a full e electron configuration, an orbital filling diagram that the short hand electron configuration uses the point and that the orbital diagram is used to illust Rule). The Lewis dot diagram is completed using electrons of the outermost energy level).	m and a Lewis dot diagram. Keep in mind the last completed noble gas as a starting strate the distribution of electrons (Hund's
1. Boron Full configuration:	
Short hand configuration: []	
Orbital filling diagram: (You may use the shorth $[] [] [] [] [] [] [] [] [] [$	hand method)
Lewis Dot Diagram:	
2. Silicon Full configuration:	
Short hand configuration: []	
Orbital filling diagram: (You may use the shortle s f s f s f s f s	chand method)
Lewis Dot Diagram:	
3. Sulfur Full configuration:	
Short hand configuration: []	
Orbital filling diagram: (You may use the shorth $[] $ $[] $ $[] $ $[] $ $[] $ $[] $ $[] $	hand method)

Lewis Dot Diagram:

4. Calcium Full configuration:		
Short hand configuration: []		
Orbital filling diagram: (You may use the sho	orthand method)	
f(n-2)	d (n-1)	p
Lewis Dot Diagram:		
5. Arsenic Full configuration:		
Short hand configuration: []		
Orbital filling diagram: (You may use the sho	orthand method)	
s $f(n-2)$	d (n-1)	p
Lewis Dot Diagram: 6. Iodine Full configuration:		
Short hand configuration: []		
Orbital filling diagram: (You may use the sho	orthand method) d (n-1)	p
Lewis Dot Diagram:		
7. Rubidium Full configuration:		
Short hand configuration: []		
Orbital filling diagram: (You may use the short $f(n-2)$	orthand method) d (n-1)	p p

Lewis Dot Diagram:

8. Chromium Full configuration:
Short hand configuration: []
Orbital filling diagram: (You may use the shorthand method) []
Lewis Dot Diagram:
9. Uranium Full configuration:
Short hand configuration: []
Orbital filling diagram: (You may use the shorthand method)
Lewis Dot Diagram:
10. Platinum Full configuration:
Short hand configuration: []
Orbital filling diagram: (You may use the shorthand method) [] g
Lewis Dot Diagram:
 Discussion Questions: The orbital diagram has arrows pointing in opposite directions when two electron occupy the same orbital. What do these arrows indicate? How many electrons do the elements in Group B have in their Lewis Dot Diagram? Why? Element X has a Lewis Dot Diagram of: X Name at least two elements this could be. Identify the element that has the orbital filling diagram:
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