Chapters 9 and 10 SI Session

Warm-up: Complete the following riddle by using your knowledge of chemistry and the key,

school?	en he dropped him off for his first day of
1. 2. 3. 4. sy:	5. 6.
Electrons are transferred from one atom to the other.	S/lone pairs
2. Nobel gases have an X	E. Duet
3. Valance shells that are stable with 2 electrons.	B. Ionic bond
4. Pairs of electrons that are only on 1 atom	Valance shell electron repulsion theory. (VSEPR).
5. Theory used to predict the shape of molecules.	Y. octet
6. Electrons are shared between 2 atoms.	D. covalent bond

Chapter 9 continued:

1. Determine the electron configuration for Neon:

2. What are orbital diagrams?

The electrons as currows in a box representing the orbital

Key

3. Describe what Valence Electrons are: a. Located in Valence Shell,
do bonding l reacts with cuto
Describe Periodic trends such as atomic size, Ionization energy, and metallic character. a. Atomic size
Jec Vinc
b. Ionization Energy:
inc 1 dec
c. Metallic Character:
dec Vinc
Chapter 10: Lewis Dot Diagrams
Draw a lewis dot structure for Nitrogen
2. Which electrons form bonds in a lewis dot diagram?
Single / Un paired
electrons.

electrons are transferred from 1 atom 3. What are ionic bonds? to onother

4. What are covalent Bonds:

electrons shared between zor more atoms

Pairs of electrons only on 1 atom.

6. What is an octet, what is a duet?

octet. Stuble WI & valence electrons duer - Stable WI 2 valence electrons.