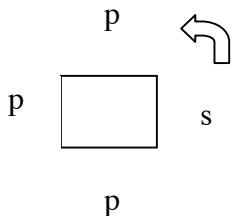
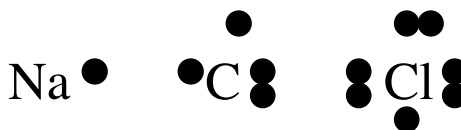


Bonding Worksheet #4 Lewis Dot Diagrams

Lewis dot diagrams are a simplified way to show how the electrons are arranged in their outer shell. This is where the chemical reactions take place. Dots are placed around the element symbol in the following way;



Here are some examples



1. What are valence electrons?
2. How can the total valence electrons for an element be determined? Explain.
3. How many valence electrons does a sodium, silicon, beryllium, and oxygen atom have?
4. Discuss how the periodic table helps to determine the number of valence electrons for an element. Include examples and state the trend in valence electrons within a group on the periodic table
5. Why are molecules more stable than separated atoms, particularly among representative elements?
6. Draw the Lewis Dot structure for the first 18 elements

H							He
Li	Be	B	C	N	O	F	Ne
Na	Mg	Al	Si	P	S	Cl	Ar