NAME	Block	

Counting Valence Electrons

- 1. **Define** valence electrons.
- 2. Indicate the **symbol** and **number of valence electrons** for each of the following elements.
- 3. Write **M** for metal or **N** for nonmetal.

Element Name	Element Symbol	# of Valence Electrons	Metal or Nonmetal
Sodium			
Oxygen			
Chlorine			
Barium			
Argon			

Element	Element	# of	Metal or
Name	Symbol	Valence	Nonmetal
		Electrons	
Aluminum			
Silicon			
Sulfur			
Neon			
Phosphorus			

Oxidation Number (Oxidation State)

1. Definic oxidation number (oxidation state	1.	Define oxidation number	(oxidation state	(؛
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- 2. Indicate whether valence electrons are **lost** or **gained**.
- 3. Indicate the **oxidation number** (oxidation state) for each of the following elements.

Element	Element	Lost or	Oxidation
Name	Symbol	Gained	State
Sodium			
Oxygen			
Chlorine			
Barium			
Argon			

Element	Element	Lost or	Oxidation
Name	Symbol	Gained	State
Aluminum			
Silicon			
Sulfur			
Neon			
Phosphorus			

Fill-in-the-blanks using the Word Bank:

me no	etal nmetal	cations anions	gain Iose	transferred shared	
In ionic b	onding, metals	ele	ectrons to become	, and	nonmetals
	_ electrons to b	ecome	Valence electr	ons are	
from the	aton	n to the	atom.		