

## Worksheet: Octet Rule, Ions

1. Why do atoms bond to fill an octet?

2. When do ions form?

3. Circle the correct option:

- a. Metals are more likely to gain/lose electrons to get a full octet.
- b. Nonmetals are more likely to gain/lose electrons to get a full octet.
- c. Low ionization means more likely to gain/lose electrons to get a full octet.
- d. High ionization means more likely to gain/lose electrons to get a full octet.

4. Fill in the table:

Element	Group	Ionic Charge	Ionic Symbol	Name
			H <sup>+</sup>	
Oxygen				
		-1		Chloride
	2		Sr <sup>2+</sup>	
Phosphorus	15			

5. Explain why group 14 elements can be either 4+ or 4- ions?