

## CHEMICAL BONDING POGIL

### Activity 3 – What's in a name?

#### Objective:

- Identify some simple rules about nomenclature (naming).

#### The Model:

Examine the table below, and answer the following questions.

Table 2

Cation	Anion	Chemical Formula	Compound Name
$\text{Na}^+$	$\text{Cl}^-$	$\text{NaCl}$	sodium chloride
$\text{Ca}^{2+}$	$\text{O}^{2-}$	$\text{CaO}$	calcium oxide
$\text{Zn}^{2+}$	$\text{Cl}^-$	$\text{ZnCl}_2$	zinc chloride
$\text{Li}^+$	$\text{S}^{2-}$	$\text{Li}_2\text{S}$	lithium sulfide
$\text{K}^+$	$\text{N}^{3-}$	$\text{K}_3\text{N}$	potassium nitride

#### Reviewing the Model

- Are ALL cations positive ions or negative ions? *positive*
- Are ALL anions positive ions or negative ions? *negative*
- What is the name of the compound formed by the combination of  $\text{Li}^+$  and  $\text{S}^{2-}$  ions? *Lithium sulfide*

#### Exploring the Model

- When the name of an ionic compound is given, which ion is stated first? *Cation*
- Compare the first part of the compound name to the name of the element from the periodic table. How does the name of the cation correspond to the name of the element?
- Compare the second part of the compound name to the name of the element from the periodic table. How does the name of the anion correspond to the name of the element?
- From what part of the periodic table do the cations in the Model come (metals or nonmetals)?  
*Alkali and alkaline earth*
- From what part of the periodic table do the anions in the Model come?  
*4*

# Chemical Bonding Pogil Answers Key

**RJ Shavelson**



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