

**WKS**  
**Ionic Bonding Worksheet**

**NAME** \_\_\_\_\_  
**Period** \_\_\_\_\_ **Date** \_\_\_\_\_

1. What is a chemical bond?
  
  
  
  
  
  
  
  
  
  
2. Why do ions form?
  
  
  
  
  
  
  
  
  
  
3. Describe the formation of both positive and negative ions.
  
  
  
  
  
  
  
  
  
  
4. What is an ionic bond?
  
  
  
  
  
  
  
  
  
  
5. List three physical properties associated with an ionic bond.
  
  
  
  
  
  
  
  
  
  
6. What is lattice energy and what does it indicate about an ion bond?
  
  
  
  
  
  
  
  
  
  
7. *For the following questions draw the Lewis Dot structures before and after transferring electrons. Determine the formula of the resulting compound. Remember-- you may need to add extra atoms sometimes (continued on back)*

<b>Atoms</b>	<b>Before transferring electrons</b>	<b>After transferring electrons (Show charges on ions)</b>	<b>Formula of compound</b>
a. K + S			
b. Ba + O			
c. Al + Cl			

<b>Atoms</b>	<b>Before transferring electrons</b>	<b>After transferring electrons (Show charges on ions)</b>	<b>Formula of compound</b>
d. Sr + P			
e. In + As			
f. Rb + N			