

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Block: \_\_\_\_\_

## Supplemental Worksheet: Ion Naming

1) Write the names of the following monovalent ions.

a)  $Mg^{2+}$  \_\_\_\_\_

b)  $S^{2-}$  \_\_\_\_\_

c)  $Br^{-}$  \_\_\_\_\_

d)  $K^{+}$  \_\_\_\_\_

e)  $O^{2-}$  \_\_\_\_\_

f)  $N^{3-}$  \_\_\_\_\_

g)  $Na^{+}$  \_\_\_\_\_

h)  $Sc^{3+}$  \_\_\_\_\_

2) Write the names of the following multivalent ions.

a)  $Fe^{2+}$  \_\_\_\_\_

b)  $Fe^{3+}$  \_\_\_\_\_

c)  $Cu^{2+}$  \_\_\_\_\_

d)  $Sn^{4+}$  \_\_\_\_\_

e)  $Au^{3+}$  \_\_\_\_\_

f)  $Au^{1+}$  \_\_\_\_\_

g)  $Ti^{4+}$  \_\_\_\_\_

h)  $Mn^{3+}$  \_\_\_\_\_

3) Write the names of the following polyatomic ions.

a)  $CN^{-}$  \_\_\_\_\_

b)  $ClO_4^{-}$  \_\_\_\_\_

c)  $NO_3^{-}$  \_\_\_\_\_

d)  $MnO_4^{-}$  \_\_\_\_\_

e)  $HSO_4^{-}$  \_\_\_\_\_

f)  $PO_4^{3-}$  \_\_\_\_\_

g)  $OH^{-}$  \_\_\_\_\_

h)  $NH_4^{+}$  \_\_\_\_\_

4) What is the charge of each of the following polyatomic ions?

a) dichromate \_\_\_\_\_

b) carbonate \_\_\_\_\_

c) bisulfide \_\_\_\_\_

d) phosphite \_\_\_\_\_

e) sulfate \_\_\_\_\_

f) sulfite \_\_\_\_\_

g) chlorite \_\_\_\_\_

h) hydrogen carbonate \_\_\_\_\_

5) Name each of the following ions.

a)  $Co^{3+}$  \_\_\_\_\_

b)  $Be^{2+}$  \_\_\_\_\_

c)  $S^{2-}$  \_\_\_\_\_

d)  $Cr^{2+}$  \_\_\_\_\_

e)  $CrO_4^{2-}$  \_\_\_\_\_

f)  $P^{3-}$  \_\_\_\_\_

g)  $V^{5+}$  \_\_\_\_\_

h)  $OH^{-}$  \_\_\_\_\_