NAMING AND WRITING FORMULAS FOR IONIC COMPOUNDS

Section Review

Objectives

- Apply the rules for naming and writing formulas for binary ionic compounds
- Apply the rules for naming and writing formulas for compounds with polyatomic ions

Vocabulary

binary compound

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

Binary ionic compounds are named by writing the name of	1
the followed by the name of the 2 Names of	2
binary compounds end in $\underline{}$. For example, NaI is $\underline{}$.	3
When a cation has more than one ionic charge, a 5	4
is used in the name.	5
Compounds with polyatomic ions whose names end in -ite	6
or -ate contain a polyatomic6 that includes7	7
In writing the formula of an ionic compound, the net ionic charge	8
must be <u>8</u> .	
Part B True-False	
${\it Classify\ each\ of\ these\ statements\ as\ always\ true, AT; sometimes\ true, S}$	T; or never true, NT.
9. The systematic name for baking soda (NaHCO ₃) is sod	ium

10. In writing a formula for an ionic compound, the net ionic charge of

the formula must be zero.

11.	Anions that contain oxygen	end ir	a -ite or -ate.
12.	The cation name is placed first when naming ionic compounds.		
Part C M	Natching		
Match each d	lescription in Column B to the	corre	ct term in Column A.
	Column A	C	olumn B
13.	binary compounds	a. io	ns that consist of a single atom
14.	monatomic ions	b. io	nic compounds composed of two elements
15.	polyatomic ions		roup B metals, many of which have more than one ommon ionic charge
16.	transition metals	d. io	ns that consist of more than one atom
Answer the fo 17. Name the (binary i) a. FeBr ₃ b. KOH c. Na ₂ C 18. Write the a. sodiu	onic or ionic with a polyatom r ₂ O ₇ e formulas for the following cum chlorate	ompo	nat type of compound they are
o. magi	1001 and golf carbonate		

Date __

Class _____