

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ /3

### SUPERMARKET CHEMISTRY

NAME AND FORMULA GRID – Applying polyatomic ions in ionic compound formula writing and naming

	Oxide $O^{2-}$	Chloride $Cl^-$	Phosphate	Sulfide	Sulfate	Hydroxide	Carbonate $CO_3^{2-}$	Acetate
$H^+$ <b>hydrogen ion</b>	$H_2O$ water	$HCl$ hydrogen chloride						
$NH_4^+$ <b>ammonium ion</b>		<b><math>NH_4Cl</math> ammonium chloride</b>						
$Na^+$							<b><math>Na_2CO_3</math> sodium carbonate</b>	
$Ca^{+2}$								<b><math>Ca(C_2H_3O_2)_2</math> calcium acetate</b>
$Fe^{+2}$				<b><math>FeS</math> iron(II) sulfide</b>				
$Fe^{+3}$						<b><math>Fe(OH)_3</math> iron(III) hydroxide</b>		
$Al^{+3}$					<b><math>Al_2(SO_4)_3</math> aluminum sulfate</b>			
$Sn^{+4}$ <b>tin (IV)</b>		<b><math>SnCl_4</math> tin(IV) chloride</b>						

Write the name and formula for each of the ions (including Roman Numerals where appropriate) in each of the boxes provided. In each of the boxes where the anions and cations meet, write the neutral balanced formula followed by the correct compound name.