nistry	Name:			
nts	Date:	Hour:		
set of Lego ion blocks to answer the f	following questions:			
(a) What is a cation?  (b) List all the cations in the Lego set:				
(b) List all the anions in the Lego set:				
(b) List all the monatomic ions in th	e Lego set:			
(a) What is a polyatomic ion?				
(b) List all the polyatomic ions in th	e Lego set:			
All charges in a compound must		·		
Build 5 compounds that include $\mathbf{K}^+$	and write their formulas:			
-	•	• • •		
-				
Build 3 compounds that only contain <b>polyatomic</b> ions (that you have not already built today)				
Make sure you have used each ion at	t least once today. If there	e are any ion blocks you have		
	set of Lego ion blocks to answer the factorial (a) What is a cation?	set of Lego ion blocks to answer the following questions:  (a) What is a cation?  (b) List all the cations in the Lego set:  (a) What is an anion?  (b) List all the anions in the Lego set:  (a) What is a monatomic ion?  (b) List all the monatomic ions in the Lego set:  (a) What is a polyatomic ion?  (b) List all the polyatomic ions in the Lego set:  All charges in a compound must  Build 5 compounds that include K+ and write their formulas:  Build 5 compounds that include O²- (that you have not alread formulas:  Build 3 compounds that only contain monatomic ions (that you and write their formulas:		

11) Complete the following charts by writing the <u>formula</u> of the compound formed when the two ions are combined.

	Ι-	Se <sup>2-</sup>	SCN-	P <sub>2</sub> O <sub>7</sub> 4-
NH <sub>4</sub> <sup>+</sup>				
$Mg^{2+}$				

	CO <sub>3</sub> <sup>2-</sup>	N <sup>3-</sup>	C 4-	CℓO -
Co 3+				
W <sup>5+</sup>				

12)	What is the <u>formula</u> for the co	mpounds made from	the following ion pairs?
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(a)  $Zn^{2+}$  and  $P^{3-}$ 

(h)  $NH_4^+$  and  $P_2O_7^{4-}$ 

(b)  $W^{5+}$  and  $ClO_3^{-}$ 

(i)  $\operatorname{Fe}(\operatorname{CN})_6^{-4-}$  and  $\operatorname{K}^+$ 

(c) Na<sup>+</sup> and ClO<sup>-</sup>

(j)  $SCN^{-}$  and  $U^{3+}$ 

(d)  $Ni^{2+}$  and  $C^{4-}$ 

(k)  $Os^{8+}$  and  $N^{3-}$ 

(e) Fe<sup>3+</sup> and Cl<sup>-</sup>

(l)  $Ge^{4+}$  and  $PtCl_6^{2-}$ 

(f)  $C_6H_5COO^-$  and  $V^{5+}$ 

(m)  $Cd^{2+}$  and  $I^{-}$ 

(g) OH<sup>-</sup> and Mn<sup>7+</sup>

(n)  $\mathrm{Sb}^{5+}$  and  $\mathrm{SiF_6}^{2-}$ 

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