Question No. 1 of 5

Question No. 1		
Instruction: (1) Read the problem statement carefully (2) Follow the outline to solve the problem on paper (3) Review the completion and compare with your own. (4) Go back to review the core concept		
tutorial as needed.		
Question #01	Write the chemical formula for sodium oxide.	
Strategy	This is a binary ionic compound. Write the symbol & charge of the first word and the second word. Balance charges with subscripts to form a neutral compound.	
Solution	Sodium = Na^{+1} Oxide = O^{-2} Sodium Oxide = $Na^{+1}Na^{+1}O^{-2}$ Answer: Na_2O	

Question No. 2 of 5

Instruction: (1) Read the problem statement carefully (2) Follow the outline to solve the problem on paper (3) Review the completion and compare with your own. (4) Go back to review the core concept tutorial as needed.		
Question #02	Write the formula for carbonous acid.	
Strategy	It is an acid. Hydrogen is the cation. "hydro_ic" acids came from an element. "_ic" acids came from an "_ate" ion. "_ous" acids came from an "_ite" ion. Balance charges with subscripts.	
Solution	Acid = H^{+1} Carbonous came from carbonite = CO_3^{-2} Carbonous acid = $H^{+1}H^{+1}CO_3^{-2}$ Answer: H_2CO_3	

Question No. 3 of 5

Instruction: (1) Read the problem statement carefully (2) Follow the outline to solve the problem on paper (3) Review the completion and compare with your own. (4) Go back to review the core concept tutorial as needed.		
Question #03	Write the formula for ammonium phosphate	
Strategy	This is a polyatomic ion compound. Write the symbol and charge for the first and second words. Balance the charges with subscripts—use parenthesis with the polyatomic ions.	
Solution	Ammonium = NH_4^{+1} Phosphate = PO_4^{-3} Ammonium phosphate = $NH_4^{+1}NH_4^{+1}NH_4^{+1}PO_4^{-3}$ Answer: $(NH_4)_3PO_4$	

Question No. 4 of 5

Instruction: (1) Read the problem statement carefully (2) Follow the outline to solve the problem on paper (3) Review the completion and compare with your own. (4) Go back to review the core concept tutorial as needed.		
Question #04	Write the formula for copper (II) hydroxide.	
Strategy	This is a multivalent metal with a polyatomic ion. Write the symbol and charge of the first and second word. The roman numerals give the charge of the metal. Balance charges with subscripts—use parenthesis with the polyatomic ion.	
Solution	Copper (II) = Cu ⁺² Hydroxide = OH ⁻¹ Copper (II) Hydroxide = Cu ⁺² OH ⁻¹ OH ⁻¹ Answer: Cu(OH) ₂	

Question No. 5 of 5

Instruction: (1) Read the problem statement carefully (2) Follow the outline to solve the problem on paper (3) Review the completion and compare with your own. (4) Go back to review the core concept tutorial as needed.		
Question #05	Write the formula for silicon dioxide.	
Strategy	The prefixes show that it's a binary covalent molecule. Write the symbols for the first and second word. Use the prefixes for the subscripts. Mono is not used on the first word.	
Solution	Silicon: Si Dioxide: O ₂ Answer: SiO ₂	