1. Which formula represents strontium phosphate?	13. The correct formula for aluminum sulfate is
A) SrPO4 B) Sr3PO8 C) Sr2(PO4)3 D) Sr3(PO4)2	A) Al2S3 B) Al3S2 C) Al2(SO4)3 D) Al3(SO4)2
 2. What is the chemical formula for iron(III) oxide? A) FeO B) Fe₂O₃ C) Fe₃O D) Fe₃O₂ 3. What is the total number of different elements present in NH₄NO₃? 	14. What is the correct name for the compound with the formula CrPO4?A) chromium (II) phosphateB) chromium (III) phosphate
A) 7 B) 9 C) 3 D) 4 4. A metal, <i>M</i> , forms an oxide compound with the general	C) chromium (II) phosphideD) chromium (III) phosphide
formula M_2 O. In which group on the Periodic Table could metal M be found?	15. What is the correct name of the compound with the formula NH4NO ₂ ?
A) Group 1 B) Group 2 C) Group 16 D) Group 17	A) ammonia nitriteB) ammonium nitriteC) ammonia nitrateD) ammonium nitrate
5. What is the chemical formula for copper(II) hydroxide?A) CuOHB) CuOH₂	16. The correct formula for lead (IV) oxide isA) PbOB) Pb2OC) Pl OD) Pl O
 C) Cu₂(OH) D) Cu(OH)₂ 6. Atoms of which set of elements all exhibit the same 	C) PbO2D) Pb2O217. What is the correct formula for iron (II) bromide?
oxidation state? A) H, He, Li B) He, F, C	A) FeBr2B) Fe2BrC) FeBrO2D) Fe2BrO2
C) Be, Ca, SrD) B, Si, As7. Which formula correctly represents the composition of	18. In a sample of solid Ba(NO₃)₂, the ratio of barium ions to nitrate ions is
iron (III) oxide? A) FeO ₃ B) Fe ₂ O ₃ C) Fe ₃ O D) Fe ₃ O ₂	A) 1:1B) 1:2C) 1:3D) 1:619. Which is the correct formula for titanium (III) oxide?
8. The chemical formula for nickel (II) bromide is	A) Ti ₂ O ₃ B) TiO C) Ti ₃ O ₂ D) Ti ₂ O ₄
 A) Ni₂Br B) NiBr₂ C) N₂Br D) NBr₂ 9. Atoms of metals tend to 	20. What is the correct formula of potassium hydride?A) KHB) KH2
A) lose electrons and form negative ions	C) KOH D) K(OH) ₂
B) lose electrons and form positive ionsC) gain electrons and form negative ions	21. Which formula contains only two elements?
D) gain electrons and form positive ions	A) KOHB) NaClO3C) Al2S3D) Bi(NO3)3
10. An atom represented by X forms a compound with the formula X_3N_2 . The atom could be	22. Base your answer to the following question on the information below.
 A) Na B) Mg C) Al D) Cs 11. What is the IUPAC name for the compound FeS? A) iron(II) sulfate B) iron(III) sulfate C) iron(II) sulfide D) Iron(III) sulfide 	A metal, <i>M</i> , was obtained from a compound in a rock sample. Experiments have determined that the element is a member of Group 2 on the Periodic Table of the Elements.
12. What is the formula of titanium(II) oxide?A) TiO B) TiO₂ C) Ti₂O D) Ti₂O₃	Using the symbol M for the element, write the chemical formula for the compound that forms when element M reacts with iodine.

- 23. In the 19th century, Dmitri Mendeleev predicted the existence of a then unknown element X with a mass of 68. He also predicted that an oxide of X would have the formula X_2O_3 . On the modern Periodic Table, what is the group number and period number of element X?
- 24. Base your answer to the following question on the information below.

A safe level of fluoride ions is added to many public drinking water supplies. Fluoride ions have been found to help prevent tooth decay. Another common source of fluoride ions is toothpaste. One of the fluoride compounds used in toothpaste is tin (II) fluoride.

A town located downstream from a chemical plant was concerned about fluoride ions from the plant leaking into its drinking water. According to the Environmental Protection Agency, the fluoride ion concentration in drinking water cannot exceed 4 ppm. The town hired a chemist to analyze its water. The chemist determined that a 175-gram sample of the town's water contains 0.000 250 grams of fluoride ions.

What is the chemical formula for tin (II) fluoride?

25.	. What is the chemical formula for sodium sulfate?		
	A) Na₂SO₃C) NaSO₃	B) Na₂SO₄D) NaSO₄	
26.	26. Which is the formula for the compound that forms when magnesium bonds with phosphorus?		
	A) Mg2PC) Mg2P3	B) MgP₂D) Mg₃P₂	
27.	7. Element X is a metal that forms an oxide with the formula X_2 O. Element X is in group		
	A) 1 B) 2 C	c) 3 D) 4	
28.	What is the correct nam	e of Fe ₂ O ₃ ?	
	A) iron (I) oxideC) iron (III) oxide	B) iron (II) oxideD) iron (V) oxide	
29.	. Which formula represents sodium sulfate?		
	A) NaSO4C) Na2SO4	B) NaSO₃D) Na₂SO₃	
30.	. In the formula $X_2(SO_4)_3$, the X represents a metal. This metal could be located on the Periodic Table in		
	A) Group1C) Group 13	B) Group 2D) Group 14	
31.	31. Which formula represents lead(II) chromate?		
	A) PbCrO₄C) Pb₂CrO₄	B) Pb(CrO₄)₂D) Pb₂(CrO₄)₃	