

Nomenclature Certification Practice Quiz

You may miss three of these.

1 H																	2 He				
3 Li	4 Be															5 B	6 C	7 N	8 O	9 F	10 Ne
11 Na	12 Mg															13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr				
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe				
55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn				

I ionic
 CM covalent molecular
 TM transition metal — may need ()
 for oxidation st

1. Print the names of these substances.

1. KOH	I	potassium hydroxide
2. Ca(NO ₃) ₂	I	calcium nitrate
3. SCl ₄	CM	sulfur tetrachloride
4. CO	CM	carbon monoxide
5. FeBr ₂	TM I	iron(II) bromide (or ferrous bromide)
6. CrO ₃	I TM	chromium(VI) oxide
7. OF ₂	CM	oxygen difluoride
8. Li ₂ CO ₃	I	lithium carbonate
9. Na ₃ PO ₄	I	sodium phosphate
10. PCl ₅	CM	phosphorus pentachloride
11. P ₄ S ₆	CM	tetraphosphorus hexasulfide
12. CoSO ₄	I TM	cobalt(II) sulfate
13. Au(ClO ₄) ₃	I TM	gold(III) perchlorate
14. KCN	I	potassium cyanide
15. MgSO ₃	I	magnesium sulfite
16. Be(NO ₂) ₂	I	beryllium nitrite
17. Ca(HSO ₄) ₂	I	calcium bisulfate or calcium hydrogen sulfate
18. KClO	I	potassium hypochlorite
19. Fe ₂ S ₃	I TM (or ferric sulfide)	iron(III) sulfide
20. Zn(NO ₂) ₂	I TM	zinc nitrite*

2. Write the formulas of these substances.

1. nickel(II) chloride	I TM	NiCl ₂
2. carbon disulfide	CM	CS ₂
3. barium hydrogen phosphate	I	BaHPO ₄
4. phosphorus pentafluoride	CM	PF ₅
5. copper(I) chlorate	I TM	CuClO ₃
6. iron(III) chlorite	I TM	Fe(ClO ₂) ₃
7. nitrogen dioxide	CM	NO ₂
8. magnesium thiocyanate	I	Mg(SCN) ₂
9. calcium bicarbonate	I	Ca(HCO ₃) ₂
10. potassium dihydrogen phosphate	I	KH ₂ PO ₄
11. ammonium dichromate	I	(NH ₄) ₂ Cr ₂ O ₇
12. nitrogen triiodide	CM	NI ₃
13. silver(I) acetate	I TM	AgC ₂ H ₃ O ₂
14. vanadium(III) permanganate	I TM	V(MnO ₄) ₃
15. beryllium peroxide	I	BeO ₂
16. carbon monoxide	CM	CO
17. mercurous hypochlorite	I TM	Hg ₂ (ClO) ₂
18. bromine pentafluoride	CM	BrF ₅
19. nickel(II) chlorate	I TM	Ni(ClO ₃) ₂
20. ammonium cyanide	I	NH ₄ CN

* Zinc has only one oxidation state
 so one usually does not include the (II)
 ** So does silver, only Ag(I) is known
 so the (I) is usually omitted.