Name: _____ Date: _____

BCI SCIENCE
SCH 3U

Nomenclature: Derivatives of Polyatomic Ions and Oxy Acids

#	Formula	Name	#	Formula	Name
1	K_3PO_3	potassium phosphite	23	$Zn(NO_2)_2$	zinc nitrite
2	NH_4HCO_3	ammonium bicarbonate	24	H_3PO_5	hydrogen perphosphate
3	$Mg(ClO_2)_2$	magnesium chlorite	25	$Ca_3(PO_2)_2$	calcium hypophosphite
4	$AlPO_2$	aluminum hypophosphite	26	$B(HCO_3)_3$	boron bicarbonate
5	Li_2SO_5	lithium persulphate	27	$AgBrO_2$	silver bromite
6	$NaBrO_2$	sodium bromite	28	KIO_2	potassium iodite
7	FrIO	francium hypoiodite	29	$Cs_2S_2O_3$	cesium thiosulfate
~~8~~	~~CaS_2O_3~~	~~calcium thiosulphate~~	~~30~~	~~$RbFO_2$~~	~~rhubidium fluorite~~
9	H_3PO_4 (aq)	phosphoric acid	31	H_2CO_3 (aq)	carbonic acid
10	HNO_3 (aq)	nitric acid	32	$HClO_3$ (aq)	chloric acid
11	H_2SO_4 (aq)	sulphuric acid	33	H_2SO_4 (aq)	sulphuric acid
12	HIO_3 (aq)	iodic acid	34	H_3PO_4 (aq)	phosphoric acid
13	H_2CO_3 (aq)	carbonic acid	35	HCH_3CO_2 (aq)	acetic acid
14	$HBrO_3$ (aq)	bromic acid	36	$HBrO_3$ (aq)	bromic acid
15	HCH_3COO (aq)	acetic acid	37	HNO_3 (aq)	nitric acid
16	H_2SO_5 (aq)	persulphuric acid	38	HIO_4 (aq)	periodic acid
17	$HClO_2$ (aq)	chlorous acid	39	H_2SO_2 (aq)	hyposulphurous acid
18	HNO (aq)	hyponitrous acid	40	HNO_2 (aq)	nitrous acid
19	H_3PO_5 (aq)	perphosphoric acid	41	H_2CO_4 (aq)	percarbonic acid
20	H_2CO (aq)	hypocarbonous acid	42	HIO_2 (aq)	iodous acid
21	H_3PO_3 (aq)	phosphorous acid	43	H_3PO_2 (aq)	hypophosphorous acid
22	$HClO_4$ (aq)	perchloric acid	44	$HBrO_2$ (aq)	bromous acid

Write the formula for each of the acids listed below:

Nitric acid	HNO_3 (aq)
Hydrocyanic acid	HCN (aq)
Chloric acid	$HClO_3$ (aq)
Acetic acid	$HC_2H_3O_2$ (aq)
Hydrobromic acid	HBr (aq)
Sulfurous acid	H_2SO_3 (aq)
Chlorous acid	$HClO_2$ (aq)
Boric acid	H_3BO_3 (aq)
Hydrochloric acid	HCl (aq)
Phosphoric acid	H_3PO_4 (aq)
Nitrous acid	HNO_2 (aq)
Hydrofluoric acid	HF (aq)
Perchloric acid	$HClO_4$ (aq)
Hydroiodic acid	HI (aq)
Phosphorous acid	H_3PO_3 (aq)
Carbonic acid	H_2CO_3 (aq)
Sulfuric acid	H_2SO_4 (aq)
Formic acid	HCOOH

Name each of the following acids:

$HClO_4$	perchloric acid
$HCOOH$	formic acid
H_3PO_4	phosphoric acid
$HCl_{(aq)}$	hydrochloric acid
H_3BO_3	boric acid
H_2SO_4	sulphuric acid
HNO_2	nitrous acid
$HI_{(aq)}$	hydroiodic acid
CH_3COOH	acetic acid
$HF_{(aq)}$	hydrofluoric acid
H_3PO_3	phosphorous acid
$HCN_{(aq)}$	hydrocyanic acid
$HClO_3$	chloric acid
H_2CO_3	carbonic acid
H_2SO_3	sulphurous acid
$HClO_2$	chlorous acid
HNO_3	nitric acid
$HBr_{(aq)}$	hydrobromic acid