Predicting Reactions

Name ______ Date ___/___/___

SUBSTANCES

Write the chemical symbol for the following formulas. If the substance exists mainly as separate ions, write the separate ions.

solid aluminum oxidea solution of sodium hydroxidesolid calcium oxidesulfur trioxide gas0.1-molar sulfuric acid0.1-molar potassium hydroxide
solid calcium oxide sulfur trioxide gas 0.1-molar sulfuric acid
sulfur trioxide gas 0.1-molar sulfuric acid
0.1-molar sulfuric acid
0.1-molar potassium hydroxide
calcium metal
nitrogen gas
solid copper(II) sulfide
oxygen gas
concentrated solution of hydrochloric acid
powdered manganese dioxide
concentrated solution of ammonia
a solution of zinc iodide
a solution of copper(II) sulfate
a solution of barium hydroxide
a solution of magnesium nitrate
solid lithium hydride
water
a solution of ammonia
a solution of hydrofluoric acid
a piece of aluminum metal
a solution of silver nitrate
a solution of potassium iodide
solid potassium oxide
an excess of nitric acid solution

tetraamminecopper(II) sulfate	
carbon dioxide gas	
a suspension of calcium carbonate	
a strip of copper	
dilute nitric acid	
potassium permanganate solution	
an acidic solution of hydrogen peroxide	
solid manganese (II) sulfide	
chlorine gas	
hot iron filings	
solid magnesium nitride	
sulfur dioxide gas	
a suspension of silver chloride	
a solution of tri-potassium phosphate	
a solution of zinc nitrate	
sodium cyanide solution	
a solution of manganese(II) sulfate	
a solution of ammonium sulfide	
phosphorus(V) oxide powder	
solid ammonium carbonate	
solid potassium permanganate	
a small piece of sodium metal	
a solution of potassium dichromate	
an acidified solution of iron(II) chloride	
ethanol	
solid barium oxide	

a solution of iron(II) nitrate	
solid calcium phosphate	
hydrogen sulfide gas	
a solution of mercury(II) chloride	
solid calcium hydride	
a bar of zinc metal	
solid calcium carbonate	
a piece of nickel metal	
a solution of disodium hydrogen phosphate	
a solution of sodium bromide	
ammonia gas	
a solution of ethanoic (acetic) acid	
solid ammonium carbonate	
a saturated solution of barium hydroxide	
drops of liquid dinitrogen trioxide	
a solution of sodium oxalate	
a solution of aluminum nitrate	
an acidified solution of potassium bromate	
phosphine (phosphorus trihydride) gas	
liquid boron trichloride	
hydrogen gas	
hot iron(II) oxide powder	
solid potassium amide	
a strip of magnesium metal	
a solution of nickel chloride	
a solution of sodium sulfide	
a solution of tin(II) chloride	

ГТ	
a solution of iron(III) chloride	
a solution of cobalt(II) nitrate	
ethane gas	
a solution of phosphoric acid	
solid calcium sulfite	
a solution of diamminesilver(I) nitrate	
solid sodium oxide	
a solution of 6.0-molar hydrobromic acid	
butanol	
a solution of nickel(II) sulfate	
a solution of copper(II) chloride	
a solution of tin(II) nitrate	
a solution of potassium hydrogen carbonate	
powdered strontium oxide	
hot iron(III) oxide	
carbon monoxide gas	
a drop of potassium thiocyanate solution	
a solution of iron(III) nitrate	
a piece of copper wire	
a solution of propanoic acid	
an acidified solution of sodium dichromate	
a solution of potassium bromide	
powdered magnesium carbonate	
a solution of strontium nitrate	
a solution of sodium sulfate	