

More Reactions

Name - _____

1.) Translate the following word equations into chemical symbols and balance the resulting equations. Do not include the phases.

a.) potassium and water yield potassium hydroxide and hydrogen gas.



b.) strontium and water makes strontium hydroxide and hydrogen gas.



c.) aluminum metal and chlorine gas are mixed to make aluminum chloride.



d.) copper (I) oxide and carbon are reacted to form copper metal and carbon dioxide gas.



e.) ammonia and sulphuric acid combine to form ammonium sulphate.



2.) In each of the following reactions write a balanced chemical equation, including the phases.

a.) Liquid phosphoric acid reacts with aqueous barium hydroxide to give water and a precipitate of barium phosphate.



b.) Solid aluminum oxide and aqueous sulphuric acid produce water and aqueous aluminum sulphate.



c.) Nitrogen trifluoride gas and hydrogen gas react to form nitrogen gas and gaseous hydrogen fluoride.



d.) Powdered sodium carbonate and aqueous hydrobromic acid react to form carbon dioxide gas, aqueous sodium bromide and water.



e.) sodium nitrate crystals and solid sodium metal react to form solid sodium oxide and nitrogen gas.



f.) Gaseous boron trichloride reacts with steam to yield solid boron trihydroxide and hydrogen chloride gas.



g.) Gaseous xenon hexafluoride reacts violently with water to form solid xenon trioxide and gaseous hydrogen fluoride.

