

# Reactions 1

## AP Chemistry

**This exercise must be completed and brought to my room before the start of first period on Friday. Failure to do so will incur a 25% penalty unless there is a legal reason.**

The Reactions are worth 3 points apiece. 1 point for the correct reactants and 2 points for the correct products. The maximum score you can achieve is 24/20.

### Instructions

Give the formulas to show the reactants and the products of the following chemical reactions. Each of the reactions occurs in aqueous solution unless otherwise indicated. Represent substances in solution as ions if the substance is extensively ionized. Omit formulas for any ions or molecules that are unchanged by the reaction (net ionic). In all cases a reaction occurs.

### Section 1

- a) A piece of lithium metal is dropped into a container of nitrogen gas.
- b) Dilute hydrochloric acid is added to a solution of potassium sulfite.
- c) Solid sodium oxide is added to water.
- d) A solution of sodium sulfide is added to a solution of zinc nitrate.
- e) A solution of ammonia is added to a dilute solution of acetic acid..
- f) A piece of iron is added to a solution of iron(III)sulfate.
- g) Ethene (ethylene) gas is bubbled through a solution of bromine.
- h) Chlorine gas is bubbled into a solution of potassium iodide.