

Reactions 4

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) Solid dinitrogen pentoxide is added to water.
- b) Solid lithium hydride is added to water.
- c) A solution of potassium iodide is added to an acidified solution of potassium dichromate.
- d) Powdered magnesium carbonate is heated strongly.
- e) Solid copper(II)sulfide is heated strongly in oxygen gas.
- f) Solid potassium chlorate is heated in the presence of manganese dioxide as a catalyst.
- g) An excess of nitric acid solution is added to a solution of tetraamminecopper(II) sulfate.
- h) Sulfur dioxide gas is bubbled into distilled water.