AP Chemistry
Reaction Practice
Day 9

Name	Key	204
Date	Perio	d

For each of the following three reactions, in part (i) write a BALANCED equation and in part (ii) answer the question about the reaction. In part (i), coefficients should be in terms of lowest whole numbers. Assume that solutions are aqueous unless otherwise indicated. Represent substances in solutions as ions if the substances are extensively ionized. Omit formulas for any ions or molecules that are unchanged by the reaction.

1. Liquid bromine is shaken with a 0.50 M solution of sodium iodide.

(ii) What would happen if you mixed liquid iodine with sodium bromide? Explain.

Nothing world hopper since Brz has a more positive Reduction potential than Iz. (Brz is more Reactive)

2. Carbon dioxide gas is passed over hot, solid sodium oxide.

(i)
$$Co_2 + Na_2O \longrightarrow Na_2Co_3$$

(ii) Assume that you dissolved the product of this reaction in water. Would the resulting solution be acidic (basic) or neutral? Explain. Use an equation as part of your explaination.

3. Chlorine gas is bubbled into water.

(i)
$$Cl_2 + H_{20} \rightarrow H^+ + Cl^- + HClo$$

$$Res \int \infty$$

(ii) What is the oxidizing agent and what is the reducing agent?

