## 2007 AP® CHEMISTRY FREE-RESPONSE QUESTIONS (Form B)

(b) Chlo	orine gas, an oxidizing agent, is bubbled into a solution of potassium bromide.
(i)	) Balanced equation:
(ii)	What is the oxidation number of chlorine <u>before</u> the reaction occurs? What is the oxidation number of chlorine <u>after</u> the reaction occurs?
(c) A sr	mall piece of sodium is placed in a beaker of distilled water.
	) Balanced equation:
(ii)	The reaction is exothermic, and sometimes small flames are observed as the sodium reacts with the water. Identify the product of the reaction that burns to produce the flames.