

2009 AP[®] CHEMISTRY FREE-RESPONSE QUESTIONS (Form B)

- (b) A piece of cadmium metal is oxidized by adding it to a solution of copper(II) chloride.

(i) Balanced equation:

(ii) List two visible changes that would occur in the reaction container as the reaction is proceeding.

- (c) A hydrolysis reaction occurs when solid sodium sulfide is added to distilled water.

(i) Balanced equation:

(ii) Indicate whether the pH of the resulting solution is less than 7, equal to 7, or greater than 7. Explain.
