Forestville	Central	School	 AP 	Chemistr	y
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Name

Chapter 20 Electrochemistry

Balancing REDOX Equations using the Ion-Electron Method Worksheet

Directions: Balance each of the following equations using the Ion-Electron method as shown in class.

1) Al +
$$NO_3^- \rightarrow Al(OH)_4^- + NH_3$$
 (basic solution)

2) NaI + $H_2SO_4 \rightarrow Na_2SO_4 + H_2S + I_2$ (acidic solution)

3) $CIO^{-} + As \rightarrow AsO_4^{3-} + CI^{-}$ (basic solution)

4) $S^{2-} + I_2 \rightarrow SO_4^{2-} + I^-$ (basic solution)

5) $CH_3OH + MnO_4^- \rightarrow CO_2 + MnO_2$ (acidic solution)