Name:) (Date:
-------	-----	-------

TYPES OF CHEMICAL REACTIONS

Predict the products of the following reactions. Write the balanced chemical equation and identify the reaction type.

 Reaction Description: Sodium reacts with water.

Balanced Chemical Equation:

2 Na (s) + 2 $H_2O(I) \rightarrow 2$ NaOH (aq) + $H_2(g)$

Type of Reaction: Single-replacement (Displacement)

2. Reaction Description: Zinc reacts with sulfuric acid.

Balanced Chemical Equation:

 $Zn(s) + H_2SO_4(aq) \rightarrow ZnSO_4(aq) + H_2(g)$

Type of Reaction: Single-replacement (Displacement)

3. Reaction Description: Iron reacts with chlorine gas.

Balanced Chemical Equation:

Fe (s) + $Cl_2(g) \rightarrow FeCl_2(s)$

Type of Reaction: Synthesis (Combination)

4. Reaction Description:
Methane reacts with oxygen.

Balanced Chemical Equation:

 $CH_4(g) + 2 O_2(g) \rightarrow CO_2(g) + 2 H_2O(g)$

Type of Reaction: Combustion

5. Reaction Description:

Sodium bicarbonate reacts with hydrochloric acid.

Balanced Chemical Equation:

 $NaHCO_3(aq) + HCI(aq) \rightarrow NaCI(aq) + CO_2(g) + H_2O(I)$

Type of Reaction: Double-replacement (Acid-Base)