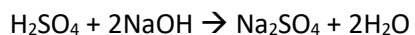
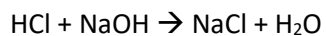


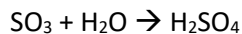
HW-May 7

Classes of chemical compounds

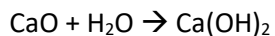
- A. Reactions where acids and bases react with each other are called **reactions of neutralization**. In these reactions a salt and water are formed. E.g. below is a neutralization reaction between hydrochloric acid (HCl – acid) and sodium hydroxide (NaOH – base) with formation of salt (sodium chloride, NaCl) and water:



- B. When acidic oxides react with water, they form acids. E.g.:



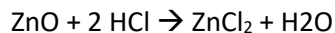
- C. When basic oxides react with water, they form bases. E.g.:



- D. Acidic oxides can react with bases with formation of water:

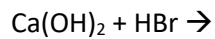
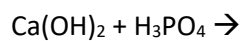
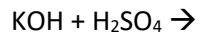
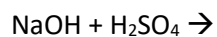


- E. Basic oxides can react with acids with formation of water and salt:



1. Basic CaO reacts with hydrochloric acid (HCl) forming the salt of calcium chloride CaCl₂ and water. Write the chemical reaction, balance the equation, and calculate how many grams of this salt will form from 73 g HCl.

2. Finish and balance the following chemical equations:



3. Using Periodic table write down formulas of the following oxides: Ca, Ba, Fe(II), Cr(III), Cl (VII), Si (IV). Underline formulas of acidic oxides.