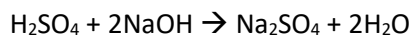
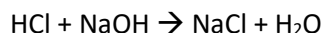


Classes of chemical compounds - 4

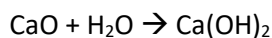
- A. Reactions where acids and bases react with each other are called **reactions of neutralization**. In these reactions a salt and water are formed. E.g. below is a neutralization reaction between hydrochloric acid (HCl – acid) and sodium hydroxide (NaOH – base) with formation of salt (sodium chloride,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



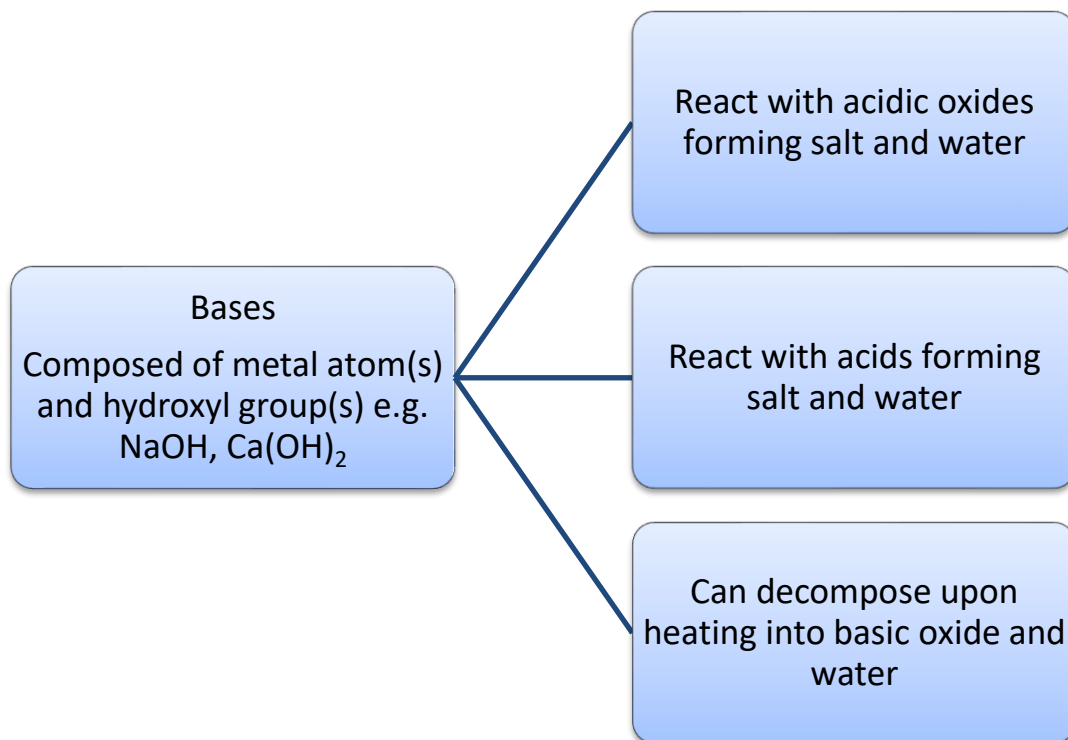
- B. When acidic oxides react with water, they form acids. E.g.:



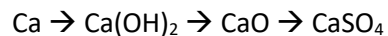
- C. When basic oxides react with water, they form bases. E.g.:



- D. Reactions of bases:



1. Write chemical equations for the following transformations (you can look up formulas of necessary reactants in the last lecture and above):



2. Basic CaO reacts with hydrochloric acid (HCl) forming the salt of calcium chloride CaCl_2 and water. Write the chemical reaction, balance the equation, and calculate how many grams of this salt will form from 73 g HCl.