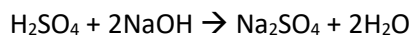
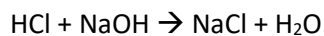
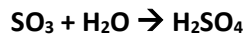


Classes of chemical compounds - 3

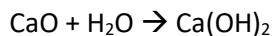
- A. Reactions where acids and bases react with each other are called **reactions of neutralization**. In these reactions a salt and water are formed. E.g. below is a neutralization reaction between hydrochloric acid (HCl – acid) and sodium hydroxide (NaOH – base) with formation of salt (sodium chloride,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



1. Write neutralization reactions between acids and bases that result in the following salts:

$\text{Al}_2(\text{SO}_4)_3$, NiCO_3 , $\text{Fe}(\text{NO}_3)_3$, $\text{Mg}(\text{PO}_4)_2$, PbS , Li_2SO_4

2. How many kg of P_2O_5 is necessary to obtain 98 kg of phosphoric acid H_3PO_4 ?