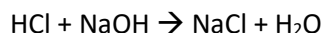
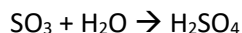


***Classes of chemical compounds - 1***

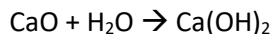
- A. Reactions where acids and bases react with each other are called **reactions of neutralization**. In these reactions a salt and water are formed. E.g. below is a neutralization reaction between hydrochloric acid (HCl – acid) and sodium hydroxide (NaOH – base) with formation of salt (sodium chloride,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



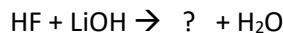
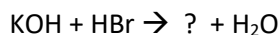
- B. When acidic oxides react with water, they form acids. E.g.:



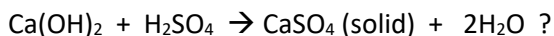
- C. When basic oxides react with water, they form bases. E.g.:



1. What salts form in the following reactions of neutralization:



2. How many grams of calcium sulfate ( $\text{CaSO}_4$ ) will form in the neutralization reaction of 7.4 g of calcium hydroxide [ $\text{Ca(OH)}_2$ ] with an excess of sulfuric acid ( $\text{H}_2\text{SO}_4$ ) according to the following reaction:



3. Write down chemical reactions of the following oxides with water: BaO,  $\text{L}_2\text{O}$ ,  $\text{N}_2\text{O}_3$ , and  $\text{SeO}_3$ .