Sodium sulfate has formula  $Na_2SO_4$  and sodium carbonate  $Na_2CO_3$ . Apparently, the only way to convert sodium sulfate into sodium carbonate is reaction of sodium sulfate with barium carbonate. The last one is not soluble compound, Ksp ( solubility products constant ) is  $2.58\times10^{-9}$ , but barium sulfate is even less soluble: Ksp is equal to  $1.08\times10^{-10}$ , this is the reason why the next reaction occurs:

$$Na_2SO_4 + BaCO_3 \rightarrow Na_2CO_3 + BaSO_4 \downarrow$$