

Chem 1020  
Chemical equations worksheet

Balance the following chemical equations by using the smallest whole-number coefficients possible.

1.  $\_\_ \text{Co} + \_\_ \text{O}_2 \rightarrow \_\_ \text{Co}_2\text{O}_3$
2.  $\_\_ \text{LiClO}_3 \rightarrow \_\_ \text{LiCl} + \_\_ \text{O}_2$
3.  $\_\_ \text{Cu} + \_\_ \text{AgC}_2\text{H}_3\text{O}_2 \rightarrow \_\_ \text{Cu}(\text{C}_2\text{H}_3\text{O}_2)_2 + \_\_ \text{Ag}$
4.  $\_\_ \text{Pb}(\text{NO}_3)_2 + \_\_ \text{LiCl} \rightarrow \_\_ \text{PbCl}_2 + \_\_ \text{LiNO}_3$
5.  $\_\_ \text{H}_2\text{SO}_4 + \_\_ \text{Al}(\text{OH})_3 \rightarrow \_\_ \text{Al}_2(\text{SO}_4)_3 + \_\_ \text{H}_2\text{O}$
6.  $\_\_ \text{H}_2 + \_\_ \text{N}_2 \rightarrow \_\_ \text{NH}_3$
7.  $\_\_ \text{Sr} + \_\_ \text{H}_2\text{O} \rightarrow \_\_ \text{Sr}(\text{OH})_2 + \_\_ \text{H}_2$
8.  $\_\_ \text{K}_2\text{SO}_4 + \text{Ba}(\text{OH})_2 \rightarrow \_\_ \text{BaSO}_4 + \_\_ \text{KOH}$
9.  $\_\_ \text{H}_3\text{PO}_4 + \_\_ \text{Mn}(\text{OH})_2 \rightarrow \text{Mn}_3(\text{PO}_4)_2 + \_\_ \text{H}_2\text{O}$
10.  $\_\_ \text{Al}(\text{HCO}_3)_3 \rightarrow \_\_ \text{Al}_2(\text{CO}_3)_3 + \_\_ \text{CO}_2 + \_\_ \text{H}_2\text{O}$