

1. Give the name of the following acids:

 H_2SO_4 (aq) sulfuric acid HF (aq) hydrofluoric acid H_2CO_3 (aq) carbonic acid H_2S (aq) hydro Sulfuric acid HNO_3 (aq) nitric acid

2. Give the correct chemical formula for the following acids.

hydroselenic acid $\overset{+1}{\text{H}}_2\overset{-2}{\text{Se}}$ carbonic acid H_2CO_3 hydrochloric acid $\overset{+1}{\text{H}}\overset{-1}{\text{Cl}}$ chloric acid HClO_3 hydronitric acid $\overset{+1}{\text{H}}_3\overset{-1}{\text{N}}$
No oxygensulfuric acid H_2SO_4

3. Give the name or write the chemical formula for the following bases.

calcium hydroxide $\overset{+2}{\text{Ca}}(\text{OH})_2$ CuOH Copper Hydroxidelead (IV) hydroxide $\overset{+4}{\text{Pb}}(\text{OH})_4$ $\text{Ba}(\text{OH})_2$ Barium Hydroxideiron (III) hydroxide $\overset{+3}{\text{Fe}}(\text{OH})_3$ $\text{Ni}(\text{OH})_3$ Nickel Hydroxide

4. Predict the products for the following neutralization reactions. Then write the balanced chemical equation. (Challenge question)

