

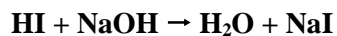


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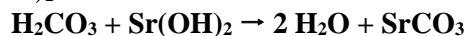
Neutralization Reactions Worksheet

1. Write the balanced chemical equations for the neutralization reactions between:

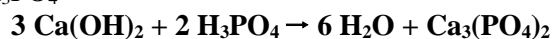
a) HI and NaOH



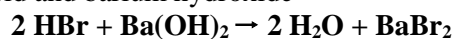
b) H_2CO_3 and $\text{Sr}(\text{OH})_2$



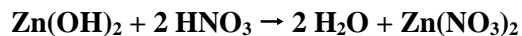
c) $\text{Ca}(\text{OH})_2$ and H_3PO_4



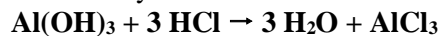
d) hydrobromic acid and barium hydroxide



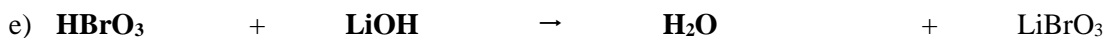
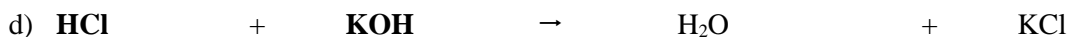
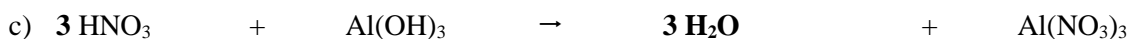
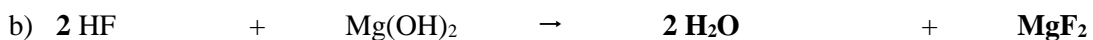
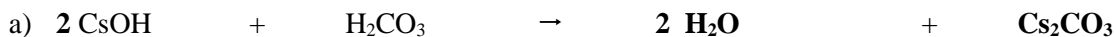
e) zinc hydroxide and nitric acid



f) aluminum hydroxide and hydrochloric acid



2. Complete and balance the following equations representing neutralization reactions:



3. Give the name and the formula of the ionic compound produced by neutralization reactions between the following acids and bases:

Acid and Base reactants	Formula
a) nitric acid and sodium hydroxide	NaNO₃
b) hydroiodic acid and calcium hydroxide	CaI₂
c) magnesium hydroxide and hydrosulfuric acid	MgS
d) ammonium hydroxide and hydrofluoric acid	NH₄F
e) barium hydroxide and sulfuric acid	BaSO₄
f) chloric acid and rubidium hydroxide	RbClO₃
g) calcium hydroxide and carbonic acid	CaCO₃

4. For each of the following ionic compounds, identify the acid and base that reacted to form them.

	Salt	Acid	Base
a)	NaCl	HCl	NaOH
b)	Ca ₃ (PO ₄) ₂	H₃PO₄	Ca(OH)₂
c)	Zn(NO ₃) ₂	HNO₃	Zn(OH)₂
d)	Al(ClO ₃) ₃	HClO₃	Al(OH)₃
e)	NH ₄ I	HI	NH₄OH