

Name: KEY Period: _____ Date: _____

Chemical Equations

*extra practice worksheet.

For the following word equations write the skeletal equation, the balanced equation and state the type of reaction.

Word Equation	sodium sulfate + barium nitrate → sodium nitrate + barium sulfate
Skeletal Equation	$\text{Na}_2\text{SO}_4 + \text{Ba}(\text{NO}_3)_2 \rightarrow \text{NaNO}_3 + \text{BaSO}_4$
Balanced Equation	$\text{Na}_2\text{SO}_4 + \text{Ba}(\text{NO}_3)_2 \rightarrow 2\text{NaNO}_3 + \text{BaSO}_4$
Type of Reaction	

Word Equation	copper (I) chlorate + zinc → zinc chlorate + copper
Skeletal Equation	$\text{CuClO}_3 + \text{Zn} \rightarrow \text{Zn}(\text{ClO}_3)_2 + \text{Cu}$
Balanced Equation	$2\text{CuClO}_3 + \text{Zn} \rightarrow \text{Zn}(\text{ClO}_3)_2 + 2\text{Cu}$
Type of Reaction	

Word Equation	manganese + oxygen → manganese (II) oxide
Skeletal Equation	$\text{Mn} + \text{O}_2 \rightarrow \text{MnO}$
Balanced Equation	$2\text{Mn} + \text{O}_2 \rightarrow 2\text{MnO}$
Type of Reaction	

Word Equation	fluorine + aluminum bromide → aluminum fluoride + bromine
Skeletal Equation	$\text{F}_2 + \text{AlBr}_3 \rightarrow \text{AlF}_3 + \text{Br}_2$
Balanced Equation	$3\text{F}_2 + 2\text{AlBr}_3 \rightarrow 2\text{AlF}_3 + 3\text{Br}_2$
Type of Reaction	

Word Equation	nickel (III) sulfide → nickel + sulfur
Skeletal Equation	$\text{Ni}_2\text{S}_3 \rightarrow \text{Ni} + \text{S}$
Balanced Equation	$\text{Ni}_2\text{S}_3 \rightarrow 2\text{Ni} + 3\text{S}$
Type of Reaction	

Name: _____ Period: _____ Date: _____

Word Equation	bromine + lead \rightarrow lead (IV) bromide
Skeletal Equation	$\text{Br}_2 + \text{Pb} \rightarrow \text{PbBr}_4$
Balanced Equation	$2\text{Br}_2 + \text{Pb} \rightarrow \text{PbBr}_4$
Type of Reaction	

Word Equation	ammonium carbonate + barium iodide \rightarrow ammonium iodide + barium carbonate
Skeletal Equation	$(\text{NH}_4)_2\text{CO}_3 + \text{BaI}_2 \rightarrow \text{NH}_4\text{I} + \text{BaCO}_3$
Balanced Equation	$(\text{NH}_4)_2\text{CO}_3 + \text{BaI}_2 \rightarrow 2\text{NH}_4\text{I} + \text{BaCO}_3$
Type of Reaction	

Word Equation	tin (II) iodide \rightarrow tin + iodine
Skeletal Equation	$\text{SnI}_2 \rightarrow \text{Sn} + \text{I}_2$
Balanced Equation	$\text{SnI}_2 \rightarrow \text{Sn} + \text{I}_2$ *already balanced
Type of Reaction	

Word Equation	nickel (II) iodide + fluorine \rightarrow nickel (II) fluoride + iodine
Skeletal Equation	$\text{NiI}_2 + \text{F}_2 \rightarrow \text{NiF}_2 + \text{I}_2$
Balanced Equation	$\text{NiI}_2 + \text{F}_2 \rightarrow \text{NiF}_2 + \text{I}_2$
Type of Reaction	

Word Equation	potassium + hydrogen hydroxide \rightarrow potassium hydroxide + hydrogen
Skeletal Equation	$\text{K} + \text{H}_2\text{O} \rightarrow \text{KOH} + \text{H}_2$
Balanced Equation	$2\text{K} + 2\text{H}_2\text{O} \rightarrow 2\text{KOH} + \text{H}_2$ *already balanced
Type of Reaction	