

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 4H – Decomposition Reactions

20 Points

For the following reactions, write the products of each reaction following the template provided.
Show work for ionic compound

| | | | | |
|----------|--|---|---|---|
| Reaction | $\text{HBr} \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|---|---|---|---|
| Reaction | $\text{Na}_2\text{O} \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|--|---|---|---|
| Reaction | $\text{H}_3\text{P} \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|---|---|---|---|
| Reaction | $\text{Zn}_3\text{N} \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|--|---|---|---|
| Reaction | $\text{H}_2\text{S} \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|---|---|---|---|
| Reaction | $\text{WS}_3 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|---|---|---|---|
| Reaction | $\text{HClO}_3 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|--|---|---|---|
| Reaction | $\text{NaBrO}_3 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|---|---|---|---|
| Reaction | $\text{H}_3\text{PO}_4 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |

| | | | | |
|----------|--|---|---|---|
| Reaction | $\text{Pb}(\text{SO}_4)_2 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ | | | |
| AB | \rightarrow | A | + | B |
| | \rightarrow | | + | |