## Balancing Equation Activity

Using the cards for each equation, determine how many of each reactant and product are required to balance the number of atoms on each side of the equation.

1. $\qquad$ $\mathrm{Fe}+\ldots \mathrm{Cl}_{2} \rightarrow$ $\qquad$ $\mathrm{FeCl}_{3}$

Word equation:
2. $\qquad$ $\mathrm{Fe}+\ldots \mathrm{O}_{2} \rightarrow$ $\qquad$ $\mathrm{Fe}_{2} \mathrm{O}_{3}$

Word equation:
3. $\__{-} \mathrm{N}_{2}+\ldots \mathrm{H}_{2} \rightarrow \quad \mathrm{NH}_{3}$

Word equation:
4. $\quad \mathrm{Li}+$ $\qquad$ $\mathrm{AlCl}_{3} \rightarrow \longrightarrow$ $\mathrm{LiCl}+$ $\qquad$ Al

Word equation:
5. $\qquad$ $\mathrm{Ag}_{2} \mathrm{O} \rightarrow \quad \mathrm{O}_{2}+$ $\qquad$ Ag

Word equation:
6. $\qquad$ $\mathrm{CuCl}_{2}+$ $\qquad$ $\mathrm{Fe} \rightarrow \quad \ldots \mathrm{FeCl}_{3}+$ $\qquad$ Cu

Word equation:
7. $\qquad$ $\mathrm{H}_{2} \mathrm{O}_{2} \rightarrow \quad-\quad \mathrm{H}_{2} \mathrm{O}+$ $\qquad$ $\mathrm{O}_{2}$

Word equation:
8. $\quad \_\mathrm{Br}_{2}+\ldots \mathrm{AlCl}_{3} \rightarrow \quad \ldots \mathrm{AlBr}_{3}+\ldots \mathrm{Cl}_{2}$

Word equation:
9. $\qquad$ $\mathrm{AgNO}_{3} \rightarrow$ $\qquad$ $\mathrm{Cu}\left(\mathrm{NO}_{3}\right)_{2}+$ $\qquad$ AgCl

Word equation:
10. $\qquad$ $\mathrm{KNO}_{3} \rightarrow \quad-\quad \mathrm{KNO}_{2}+$ $\qquad$ $\mathrm{O}_{2}$

Word equation:

