

### STOIC BASIC DIRECTIONS:

1. Write each equation and balance it in your Chemistry Notebook.
2. Then select the correct coefficients from the drop box.
3. Lastly, identify at least 3 mole ratios of the atoms or compounds in each reaction.

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| <b>Equation 1:</b><br>$\text{NaN}_3 \rightarrow \text{Na} + \text{N}_2$                                                                                    | Mole Ratio |
| <b>Equation 2:</b><br>$\text{Na} + \text{KNO}_3 \rightarrow \text{K}_2\text{O} + \text{Na}_2\text{O} + \text{N}_2$                                         | Mole Ratio |
| <b>Equation 3:</b><br>$\text{K}_2\text{O} + \text{Na}_2\text{O} + \text{SiO}_2 \rightarrow \text{Na}_2\text{K}_2\text{SiO}_4$<br>(alkaline silicate glass) | Mole Ratio |

