Conservation Law Lab Name: _____

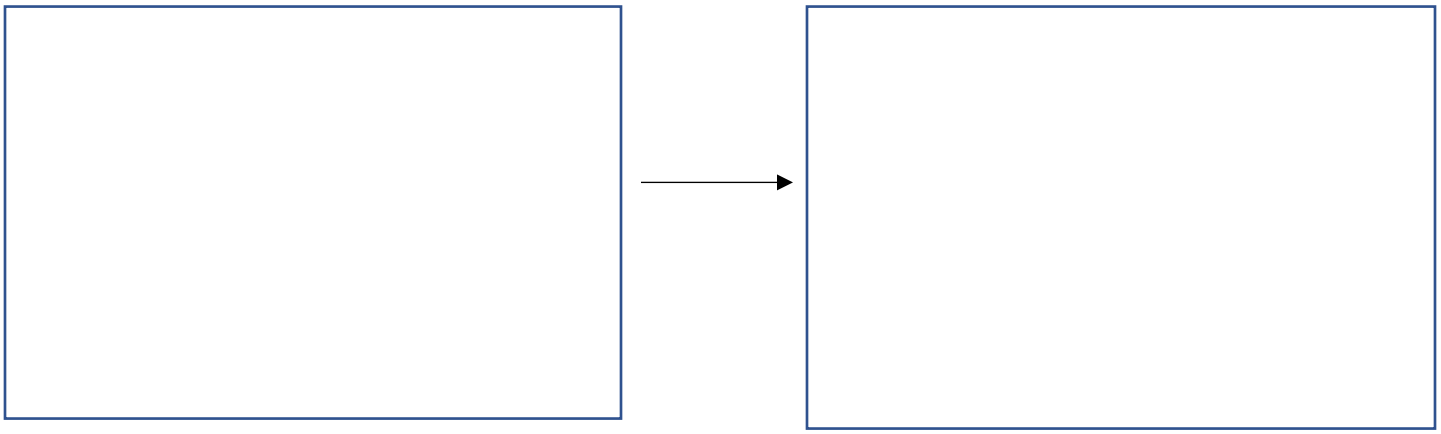
**Collect materials**

- Two different colours of Lego. Get at least 8 pieces of each colour.
- 1 colour must have at 4 or 6 attachment "nubs" (This Lego piece will represent a Nitrogen atom)
- The other colour must have 2 attachment "nubs" (This Lego piece will represent a Hydrogen atom)

**Procedure**

1) Build a $NH_3$ molecule using Lego.
2) Build a $H_2$ molecule using Lego.
3) Build a $N_2$ molecule using Lego.
4) Place the molecules in the spaces provided below.

_____ $NH_3$ ___ $H_2$ + ___ $N_2$



5) Continue to build "molecules" so that the atoms in the left box with $NH_3$'s balance with the atoms in the right box with $H_2$ and $N_2$.

6) Now draw and colour your molecules, in the boxes above, to match the Lego molecules you've built.

7) Balance the skeleton equation above the boxes.

7) Clean up and hand in this page to Mr. Woolgar.