**Formula Quiz**

1. What does a chemical formula represent?
2. What is the chemical formula of water?
3. What does the subscript represent? Give an example (it can be anything as long as it works)
4. What does the coefficient represent? Give an example (it can be anything as long as it works)
5. On what side of a chemical equation are the products?
6. On what side of a chemical equation are the reactants?
7. What is the exception for subscripts? Give an example (it can be anything as long as it fulfills the exception)
8. A molecule has two carbons and four hydrogens. What is the chemical formula for this molecule?
9. Draw a molecule and write out its chemical formula. (it can be anything as long as it is accurate)
10. True or False. The Law of conservation of mass states that atoms can only be rearranged during a chemical reaction.
11. Balance the following chemical equations:
    1. KClO3🡪KCl+O2
    2. S8+O2🡪SO2
    3. Al2(SO4)3+Ca(OH)2🡪Al(OH)3+CaSO4
    4. Al+Br2🡪AlBr3
    5. NaClO3🡪NaCl+O2
    6. AgNO3+K3PO4🡪Ag3PO4+KNO3
    7. Ca(OH)2+H3PO4🡪Ca3(PO4)2+H2O
    8. C6H6+O2🡪CO2+H2O