

### Homework test 3

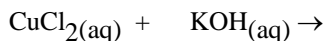
Know the names and symbols for the first 54 elements

#### Chapter 5.

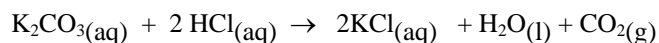
Problems: 3, 4, 6, 7, 11, 12, 15, 17, 18, 21, 34ab, 39, 45, 47, 49, 51, 53, 55, 63, 65, 67, 71, 75, 86-89, 91, 93, 97 a-d, 101

Extra Problems:

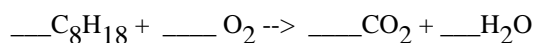
1. What are the products, include the phases(s, g, l, aq) and balance the equation:



2. Write the total ionic and net ionic equations for the following molecular equation:  
molecular:



3. Please balance the following equation.



#### Chapter 7

Problems 43-69 odd, 73-81 odd, 81-95 odd, 105-109 odd, 119, 121

Extra Problems:

1. Which molecule has the strongest intermolecular interaction: CO, HF, Cl<sub>2</sub> ?
2. Consider O<sub>2</sub>, HCl, H<sub>2</sub>O<sub>2</sub>. Rank these molecules in order of boiling point from highest to lowest.
3. Please fill in the appropriate circles and label the arrows

