

## Chapter 8: Chemical Reactions

**Focus of this section:**      *Chemical Equations*  
*Using balanced equations to*  
*solve problems*

**Chemical equations:** represent chemical "sentences"

-- Read as a sentence:



"Two methanol molecules react with three oxygen molecules to produce (yield, form) 2 two carbon dioxide molecules and four water molecules"

-- **Reactant:** any species to the left of the arrow  
(consumed)

-- **Product:** any species to the right of the arrow (formed)

-- **State symbols:**      (s) solid      (l) liquid  
                                 (aq) water solution      (g) gas

### Balancing Chemical Equations:

- **Balanced:** same number and kind of atoms on each side of the equation (conservation of mass)
- (stoichiometric) coefficients: numbers before formulas



# Chemistry Notes Chapter 8 Chemical Reactions

**Arshad Iqbal**



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