

# WORLD OF CHEMISTRY

## Chapter 9

### CHEMICAL QUANTITIES

#### Objectives:

- \* To understand the molecular and mass information given in a balanced chemical equation
- \* To learn to use a balanced chemical equation to determine relationships between moles of reactants and moles of products
- \* To learn to relate masses of reactants and products in a chemical reaction
- \* To carry out mass calculations that involve scientific notation
- \* To compare the stoichiometry of two chemical reactions
- \* To understand the concept of limiting reactants
- \* To learn to recognize the limiting reactant in a chemical reaction
- \* To learn to use the limiting reactant to do stoichiometric calculations
- \* To learn to calculate actual yield as a percentage of theoretical yield