6.3 Solution Concentration

Definitions
- Concentration
- Dilute
- Concentrated
- Parts per million
- Mole
- Molar concentration

Percent Concentration
- % V/V – Percent volume by volume → concentration = volume of solute/volume of solvent
- % W/V – Percent weight by volume → concentration = mass of solute/volume of solvent
- % W/W – Percent weight by weight → concentration = mass of solute/mass of solvent

Very Low Concentrations
- ppm = 1 mg/L
- also ppb and ppt (see table 1 on page 282)

Molar Concentration
- molar concentration = number of moles/volume

Calculations Involving Concentrations
- use the equations above to solve
- you might need $C_1V_1 = C_2V_2$
- Check the summary on page 290

Homework
- Practice: 1-8, 11-17, 19-22
- Section Questions: 1-10