

**Unit 10: Water (Part II)**

By the end of this unit you should be able to ....

- Explain how a solvent and solute form a solution
- Describe the factors that affect solubility
- Explain the characteristics of a saturated, unsaturated and supersaturated solution
- Use a solubility curve to determine how much solute will dissolve in water at a certain temperature
- Explain that water is a polar molecule and describe why this makes it a good solvent
- Calculate concentrations of solutions in percentages and ppm
- Explain how certain dissolved substances can affect humans and wildlife, such as heavy metal ions and gases
- Classify substances as either acids or bases based on their chemical properties

**Vocabulary**

Solution

Saturated

Polar Molecule

Solvent

Unsaturated

Concentration

Solute

Supersaturated

Acid

Solubility

Solubility Curve

Base