

Chemistry



Water & Its Solutions

Chemistry Curriculum

Power Objectives

P.O. #7: Illustrate solutions formed by describing the interactions between solute/solvent both conceptually and mathematically. (P.O. #7 Proficiency Rubric)

Academic Vocabulary

☐ saturated
☐ supersaturated
☐ unsaturated
☐ solubility
☐ dilute

☐ concentrated
☐ suspension
☐ solvent
☐ solute

☐ mixture
☐ precipitate
☐ molarity
☐ colloid

Enduring Understandings

Students understand that...

- Like dissolves like.
- Solutions are made of a combination of substances that are not chemically bound.
- Water is considered to be the universal solvent, but it is not always the best choice.

Essential Questions

- What is the relationship between temperature and saturation?
- Why can some solutes be dissolved in cold liquids and others in hot liquids? Why don't they always stay dissolved?
- How does knowledge of mixtures and solutions help us create ways to both reduce and treat the waste we produce?