



**Chemistry Curriculum Pacing Guide
Acid-Base and Solutions**

Crosscutting Concepts: Structure and function, Cause and effect, Scale, proportion, and quantity, System and System Models

Topics: solutions, solvation, concentration, solutes and boiling/freezing point, acid-base reactions, titrations, pH scale, dissociation, acid-base neutralization, acid-base model

Estimated Time: 8 weeks

Anchoring Phenomenon	Standard	Instructional Segments	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
Neutralization reaction of an antacid pH changes Boiling point elevation	SC6. a, b, c, d, e, f, g, h	Exploring Acids and Bases Exploring Solutions	Frameworks of K-12 Science Education: <i>By the end of grade 12</i> PS1.A: Structure and Properties of Matter PS1.B: Chemical Reactions PS2.B: Types of Interactions	<ul style="list-style-type: none"> ● Planning and carrying out investigations ● Using mathematics and computational thinking ● Asking questions and defining problems ● Obtaining, evaluating, and communicating information ● Developing and using models 	Teacher notes and materials are linked within instructional segments. By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN or ELABORATE. <ul style="list-style-type: none"> ● Solution formation ● Concentration ● Solutes and boiling/freezing point ● Acid-base reactions ● Acid-base models ● pH scale ● solvation and dissociation