

# Unit Pacing Guide: AP Chemistry

Content Area: **Science**  
Course(s): **Sample Course, Chemistry AP**  
Time Period: **Sample Time Period**  
Length: **Full Year**  
Status: **Published**

## Unit Pacing Guides

---



## Belleville Public Schools Unit Pacing Guide

**Content Area: Science**  
**Course(s): AP Chemistry**  
**Time Period: 10 months**

**Division of Units / Topics:**

<b>Unit Plan 1: Safety and Scientific Method</b> <b>AP Investigation 1: Analysis of Food Dyes in Beverages</b>	<b>Sep</b>
<b>Unit Plan 2: Solutions and Stoichiometry</b> <b>AP Investigation 2: Percent Copper in Brass</b>	<b>Sep</b>
<b>Unit Plan 3: Solutions, Redox Reactions, and Acids and Bases</b> <b>AP Investigation 3: Gravimetric Analysis of Calcium and Hard Water</b> <b>AP Investigation 4: Acidity of Beverages</b>	<b>Oct</b>

<p align="center"><b>AP Investigation 5: Separation of a Dye Mixture Using Chromatography</b></p>	
<p align="center"><b>Unit Plan 4: Gasses and Thermochemistry</b></p> <p align="center"><b>AP Investigation 6: Qualitative Analysis and Chemical Bonding</b></p> <p align="center"><b>AP Investigation 12: Designing a Hand Warmer</b></p>	<p><b>Nov</b></p>
<p align="center"><b>Unit Plan 5: Quantum Mechanics</b></p>	<p><b>Dec</b></p>
<p align="center"><b>Unit Plan 6: Bonding, VSEPR, and Inter-molecular Forces</b></p> <p align="center"><b>AP Investigation 8: Analysis of Hydrogen Peroxide</b></p> <p align="center"><b>AP Investigation 9: Separating a Synthetic Pain Relief Mixture</b></p>	<p><b>Jan</b></p>
<p align="center"><b>Unit Plan 7: Kinetics</b></p> <p align="center"><b>AP Investigation 10: Rate of Decomposition of Calcium Carbonate</b></p> <p align="center"><b>AP Investigation 11: Kinetics of Crystal Violet Fading</b></p>	<p><b>Feb</b></p>
<p align="center"><b>Unit Plan 8: Equilibrium</b></p> <p align="center"><b>AP Investigation 13: Applications of LeChâtelier's Principle</b></p> <p align="center"><b>AP Investigation 14: Acid-Base Titrations</b></p> <p align="center"><b>AP Investigation 15: Buffers in Household Products</b></p>	<p><b>M</b></p>
<p align="center"><b>Unit Plan 9: Entropy, Free Energy, and Oxidation States</b></p> <p align="center"><b>AP Investigation 16: Properties of Buffer Solutions</b></p>	<p><b>A</b></p>
<p align="center"><b>Unit Plan 10: Environmental Chemistry</b></p> <p align="center"><b>AP Investigation 7: Green Chemistry Analysis of a Mixture</b></p>	<p><b>M</b></p>
<p align="center"><b>Unit Plan 11: Organic Chemistry and Polymers</b></p>	<p><b>J</b></p>