Unit Pacing Guide: AP Chemistry

Content Area: **Science**
Course(s): **Chemistry AP**
Time Period:
Length: **180 Days**
Status: **Published**

Unit Pacing Guides

Belleville Public Schools Unit Pacing Guide

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Division of Units / Topics:

UNIT 1 (Big Idea #1): The chemical elements are fundamental building materials of matter, and all matter can be understood in terms of arrangements of atoms. These atoms retain their identity in chemical reactions.	
UNIT 2 (Big Idea #2): Chemical and Physical properties of materials can be explained by the stucture and the arrangement of atoms, ions, or molecules and the forces between them.	
UNIT 3 (Big Idea #3): Changes in matter involve the rearrangement	

and/or reorganization of atoms and/or the transfer of electrons.	
Unit 4 (Big Idea #4): Rates of chemical reactions are determined by details of the molecular collisions.	
Unit 5 (Big Idea #5): The laws of thermodynamics describe the essential role of energy and explain and predict the direction of changes in matter.	
Unit 6 (Big Idia #6):Any bond or intermolecular attraction that can be formed can be broken. These two processes are in a dynamic competition, sensitive to initial conditions and external perturbations.	
Unit 7: Organic Chemistry	