

# Unit Pacing Guide: AP Chemistry Copied from: Chemistry AP (5.0) (Physical Science), Copied on: 02/21/22

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

## Unit Pacing Guides

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## Belleville Public Schools Unit Pacing Guide

Content Area: Science  
Course(s): AP Chemistry  
Time Period: 180 days

Division of Units / Topics:

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| <b>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.</b> |  |
| <b>UNIT 2 (Big Idea #2): Chemical and Physical properties of materials can be explained by the structure and the arrangement of atoms,</b>  |  |

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| <b>ions, or molecules and the forces between them.</b>   |  |
| <b>UNIT 3 (Big Idea #3): Changes in matter involve the rearrangement and/or reorganization of atoms and/or the transfer of electrons.</b>  |  |
| <b>Unit 4 (Big Idea #4): Rates of chemical reactions are determined by details of the molecular collisions.</b>  |  |
| <b>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.</b>  |  |
| <b>Unit 6 (Big Idea #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.</b> |  |
| <b>Unit 7: Organic Chemistry</b>   |  |