

Unit Pacing Guides: Chemistry H

Content Area: **Science**
Course(s): **Chemistry H/Lab**
Time Period: **Sept-June**
Length: **Full Year**
Status: **Published**

Unit Pacing Guides



Belleville Public Schools Unit Pacing Guide

Content Area: Science
Course(s): Chemistry H
Time Period: September - June

Division of Units / Topics:

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| Honors Chemistry Unit 1: Safety and Scientific Method Lab 1a - Observation and Experimentation (Flinn Lab) | 16 Days |
| Honors Chemistry Unit 2: Matter, Measurement and Problem Solving Lab 2a - Specific Heat Capacity Lab 2b - Density Lab 2c - Cooling Curves | 18 Days |
| Honors Chemistry Unit 3: Atoms and Elements | 17 Days |

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| 3a - Conservation of mass | |
| Honors Chemistry Unit 4: Molecules, Compounds, and Chemical Equations 4a - Inorganic nomenclature 4b - Molecular modeling | 16 Days |
| Honors Chemistry Unit 5: Chemical Quantities and Aqueous Reactions 5a - Empirical formula 5b - Finding the formula of a hydrated salt 5c Limiting reactant and percent yield 5d - Preparing a standard solution 5e - Micro-scale titration 5f - Stoichiometry simulation 5g - Precipitation reactions 5h - Le Chatelier Principal | 17 Days |
| Honors Chemistry Unit 6: Gases 6a - Balloon Stoichiometry 6b Determination of R 6c - Boyles Law and Charles Law | 15 Days |
| Honors Chemistry Unit 7: Thermochemistry 7a - Enthalpy of Neutralization 7b - Instant cold packs 7c - indirect enthalpy changes | 15 Days |
| Honors Chemistry Unit 8: The Quantum Mechanical Model 8a - Flame testing and Determination of wavelength and frequency | 16 Days |

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| Honors Chemistry Unit 9: Periodic Properties of the Elements 9a - Periodic Simulation | 18 Days |
| Honors Chemistry Unit 10: The Lewis Model | 16 Days |
| Honors Chemistry Unit 11: Molecular Shapes. Valence Bond Theory, and MO Theory | 17 Days |