FLINNPREP™

Alignment for AP® Chemistry

Big Ideas	FlinnPREP™ Inquiry Labs for AP® Chemistry	FlinnPREP™ Course for AP® Chemistry
1	**Lab 1:** Analysis of Food Dyes in Beverages	**Unit 8:** Solutions **Unit 15:** Photoelectron Spectroscopy and Mass Spectrometry
	Lab 2: Percent Copper in Brass	**Unit 3:** Chemical Reactions **Unit 8:** Solutions **Unit 15:** Photoelectron Spectroscopy and Mass Spectrometry
	Lab 3: Gravimetric Analysis of Calcium and Hard Water	**Unit 6:** Stoichiometry **Unit 8:** Solutions **Unit 12:** Equilibrium
	Lab 4: Acidity of Beverages	**Unit 9:** Acids and Bases **Unit 10:** Aqueous Equilibria
2	**Lab 5:** Separation of a Dye Mixture Using Chromatography	**Unit 4:** Bonding Basics **Unit 5:** Structure and Properties
	Lab 6: Qualitative Analysis and Chemical Bonding	**Unit 2:** Atomic Structure and the Periodic Table **Unit 4:** Bonding Basics **Unit 5:** Structure and Properties
3	**Lab 7:** Green Chemistry Analysis of a Mixture	**Unit 3:** Chemical Reactions **Unit 6:** Stoichiometry
	Lab 8: Analysis of Hydrogen Peroxide	**Unit 3:** Chemical Reactions **Unit 6:** Stoichiometry **Unit 14:** Electrochemistry
	Lab 9: Separating a Synthetic Pain Relief Mixture	**Unit 4:** Bonding Basics **Unit 5:** Structure and Properties
4	**Lab 10:** Rate of Decomposition of Calcium Carbonate	**Unit 3:** Chemical Reactions **Unit 13:** Kinetics
	Lab 11: Kinetics of Crystal Violet Fading	**Unit 13:** Kinetics
5	**Lab 12:** Designing a Hand Warmer	**Unit 4:** Bonding Basics **Unit 5:** Structure and Properties **Unit 11:** Thermochemistry
6	**Lab 13:** Applications of Le Chatelier's Principle	**Unit 9:** Acids and Bases **Unit 10:** Aqueous Equilibria **Unit 12:** Equilibrium
	Lab 14: Acid–Base Titrations	**Unit 8:** Solutions **Unit 9:** Acids and Bases **Unit 10:** Aqueous Equilibria
	Lab 15: Buffers in Household Products	**Unit 8:** Solutions **Unit 9:** Acids and Bases **Unit 10:** Aqueous Equilibria
	Lab 16: Properties of Buffer Solutions	**Unit 8:** Solutions **Unit 9:** Acids and Bases **Unit 10:** Aqueous Equilibria