

Regents Chemistry Pacing Guide 2022-2023

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Quarter 1

Date	Regents Chemistry	CLRI Connections
Week 1 9.05.22 – 9.09.22* *9.05.22 - Labor Day	Establish Classroom Routines Overview of Class Structure	
Week 2 9.12.22 – 9.16.22	Unit 1: Safety and Measurement <ul style="list-style-type: none"> ● Safety in the classroom ● Measurement/Metric system/Units *Tables C, D ● Dimensional analysis ● Density *Table T 	
Week 3 9.19.22 – 9.23.22	Unit 1: Safety and Measurement <ul style="list-style-type: none"> ● Percent error *Table T ● Significant figures ● Scientific notation 	
Week 4 9.26.22- 9.30.22	Unit 2: Physical Behavior of Matter (Introduction) <ul style="list-style-type: none"> ● Classification of matter ● Physical vs. chemical properties/changes 	
Week 5 10.03.22 – 10.07.22	Unit 2: Physical Behavior of Matter (Introduction) <ul style="list-style-type: none"> ● Distinguish elements, compounds, mixtures *Table S ● Types of mixtures ● Separating Mixtures 	<ul style="list-style-type: none"> ● Article: Alma LeVant Hayden's Contributions to Regulatory Science
Week 6 10.10.22 – 10.14.22* *10.10.22 - Indigenous Peoples' and Italian-Heritage Day	Unit 3: Atomic Concepts <ul style="list-style-type: none"> ● Evolution of atomic model ● Determining number of subatomic particles ● Properties of subatomic particles 	
Week 7 10.17.22 – 10.21.22	Unit 3: Atomic Concepts <ul style="list-style-type: none"> ● Isotopes, Average atomic mass calculations ● Electron Configuration: Bohr, Lewis Diagrams ● Emission Spectrum 	
Week 8 10.24.22 – 10.28.22	Unit 4: Periodic Table <ul style="list-style-type: none"> ● Placement of elements ● Periodic trends *Table S 	<ul style="list-style-type: none"> ● Article: James Andrew Harris
Week 9 10.31.22 – 11.04.22	Unit 4: Periodic Table <ul style="list-style-type: none"> ● Classes of Elements ● Allotropes 	
Week 10 11.07.22 – 11.11.22* *11.08.22 - Election Day *11.11.22 – Veterans Day	Unit 5 Bonding and Nomenclature *Table E <ul style="list-style-type: none"> ● Naming Compounds ● Writing Formulas from Names ● Ions 	

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Quarter 2

Date	Regents Chemistry	CLRI Connections
Week 11 11.14.22– 11.18.22	Unit 5 Bonding and Nomenclature <ul style="list-style-type: none"> ● Ionic bonding ● Covalent bonding ● Metallic Bonding 	
Week 12 11.21.22 – 11.25.22* *11.24.22-11.25.22 Thanksgiving Recess	Unit 5 Bonding and Nomenclature <ul style="list-style-type: none"> ● Intermolecular Forces ● Polar and Nonpolar Bonds and Molecules 	● Article: Gautam Desiraju: Follow Your Convictions
Week 13 11.28.22 – 12.02.22	Unit 6: Gas Laws <ul style="list-style-type: none"> ● Real vs. ideal gases ● Kinetic Molecular Theory ● Boyle's Law 	
Week 14 12.05.22 – 12.09.22	Unit 6: Gas Laws <ul style="list-style-type: none"> ● Charles', Gay-Lussac's Laws ● Combined Gas Law *Table T ● STP *Table A 	
Week 15 12.12.22 – 12.16.22	Unit 7: Physical Behavior of Matter (Part 2) <ul style="list-style-type: none"> ● Phase characteristics ● Temperature scales/conversion *Table T ● Particle Diagrams 	
Week 16 12.19.22 – 12.23.22* *12.26.22-1.02.23 Winter Recess	Unit 7: Physical Behavior of Matter (Part 2) <ul style="list-style-type: none"> ● Heating and cooling curves ● Heat calculations *Table B, T 	
Week 17 1.03.23 – 1.06.23* *1.02.23 Winter Recess	Unit 8: Chemical Reactions <ul style="list-style-type: none"> ● Writing and balancing equations ● Conservation of Matter 	
Week 18 1.09.23 – 1.13.23	Unit 8: Chemical Reactions <ul style="list-style-type: none"> ● Types of Chemical Reactions ● Spontaneous reactions *Table J 	
Week 19 1.16.23 – 1.20.23* *1.16.2023 MLK Jr. Day	Unit 9: Mole Concepts <ul style="list-style-type: none"> ● Define mole's number ● Gram Formula Mass/Hydrates ● Avogadro 	
Week 20 1.23.23 – 1.27.23* *1.24.2023 - 1.27.23 – Regents Week	Regents Week (Students on Monday only - collect any last minute work)	

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Quarter 3

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Week 21 1.30.23 – 2.03.23	Unit 9: Mole Concepts <ul style="list-style-type: none"> ● Empirical/molecular formulas ● Percent composition *Table T ● Mole calculations/mole stoichiometry *Table T 	
Week 22 2.06.23 – 2.10.23	Unit 10: Kinetics <ul style="list-style-type: none"> ● Collision Theory ● Rates of Reactions ● Equilibrium - Physical and chemical/shifts 	
Week 23 2.13.23 – 2.17.23	Unit 10: Kinetics <ul style="list-style-type: none"> ● Potential Energy Diagrams *Table I ● Spontaneous reactions 	
*Mid-Winter Recess 2.20.23 – 2.24.23		
Week 24 2.27.23 – 3.03.23	Unit 11: Solutions <ul style="list-style-type: none"> ● Classifying solutions ● Using solubility tables *Tables F,G ● Vapor pressure *Table H 	
Week 25 3.06.23 – 3.10.23	Unit 11 – Solutions <ul style="list-style-type: none"> ● Concentration of solutions - *Table T ● Colligative properties 	● Biography: Norbert Rillieux
Week 26 3.13.23 – 3.17.23	Unit 12 – Acids and Bases <ul style="list-style-type: none"> ● Arrhenius theory - *Table K, L ● Neutralization ● Titration - *Table T 	
Week 27 3.20.23 – 3.24.23	Unit 12: Acids and Bases <ul style="list-style-type: none"> ● Alternate theory (Bronsted-Lowry) ● pH and indicators - *Table M 	
Week 28 3.27.23 – 3.31.23	Unit 13: Redox <ul style="list-style-type: none"> ● Assigning oxidation numbers ● Identifying reduction and oxidation 	
*Spring Recess 4.03.23-4.07.23		
Week 29 4.10.23 – 4.14.23	Unit 13: Redox <ul style="list-style-type: none"> ● Writing half reactions ● Electrochemical cells 	
Week 30 4.17.23 – 4.21.23	Unit 14: Organic Chemistry *Tables P,Q,R <ul style="list-style-type: none"> ● Chemistry of Carbon ● Classification of organic compounds 	

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Week 31 4.24.23 – 4.28.23* *4.26.23 – Early Release Day *4.27.23- Superintendent Conference Day	Unit 14: Organic Chemistry <ul style="list-style-type: none"> ● Homologous series ● Functional groups 	<ul style="list-style-type: none"> ● Biography: St. Elmo Brady ● Lesson: Discovery of Ivermectin: Preventing Blindness and Heartworm ● Article: Women Scientists of India: Dr. Asima Chatterjee
Week 32 5.01.23 – 5.05.23	Unit 14: Organic Chemistry <ul style="list-style-type: none"> ● Isomerism ● Organic reactions 	<ul style="list-style-type: none"> ● Video: Forgotten Genius - Story of Percy Jackson ● Article: Percy Julian the Trailblazer
Week 33 5.08.23 - 5.12.23* *5.10.23 – Early Release Day *5.11.23 – Superintendent Conference Day	Unit 15: Nuclear Chemistry- *Tables N,O <ul style="list-style-type: none"> ● Radioactivity ● Transmutations Reactions 	
Week 34 5.15.23 – 5.19.23	Unit 15: Nuclear Chemistry - *Tables N,O <ul style="list-style-type: none"> ● Half Life ● Benefits and Risks 	
Week 35 5.22.23 – 5.26.23	Review for Regents Exam	
Week 36 5.29.23– 6.02.23* *5.29.2023 – Memorial Day	Review for Regents Exam	
Week 37 6.05.23– 6.09.23	Review for Regents Exam	
Week 38 6.12.23 – 6.16.23	Regents Week (Students on Monday and Tuesday only)	
Week 39 6.19.23 – 6.23.23* *6.19.23 – Juneteenth *6.23.23 – Rating Day/SCD	Regents Week	
Week 40 6.26.23-6.30.23	No School	

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