

Carroll ISD

AP Science: *Year-at-a-Glance*

CONTENT				
Course / Grade Period	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Biology	U1: Chemistry of Life U2: Cell Transport	U3: Cellular Energy U4: Cell Regulation U5.1-5.2: Meiosis	U5: Genetics U6: Gene Expression U8: Ecology	U8: Ecology continued U7: Natural Selection
Chemistry	U1: Atomic Structure & Properties U4: Chemical Reactions U2: Compound Structure & Properties U3: Properties of Substances & Mixtures	U4: Chemical Reactions U7: Equilibrium U8: Acids & Bases	U8: Acids & Bases U6: Thermochemistry U9: Thermodynamics & Electrochemistry U5: Kinetics	U5: Kinetics Review
Physics 1	U1: Kinematics U5.1-2: Torque & Rotational Dynamics	U2.1-5,7-8 - Forces & Translational Dynamics U5.3-6: Torque & Rotational Dynamics U4.1-2: Linear Momentum U6.3: Energy & Momentum of Rotating Systems	U3: Work, Energy & Power U4. 3-4: Linear Momentum U6.1-5: Energy & Momentum of Rotating Systems U7: Oscillations	U2.6,9: Force & Translational Dynamics U6.6: Energy & Momentum of Rotating Systems U8: Fluids
Physics C	U1: Kinematics U2: Force & Translational Dynamics U3: Work, Energy & Power U4: Linear Momentum	U5: Torque & Rotational Dynamics U6: Energy & Momentum of Rotating Systems U7: Oscillations	U8: Electric Charges, Fields & Gauss's Law U9: Electric Potential U10: Conductors & Capacitors	U11: Electric Circuits U12: Magnetic Fields & Electromagnetism U13: Electromagnetic Induction
AP Biology Course Description: HERE AP Chemistry Course Description: HERE				
SKILLS				
Year Long Skills	<ul style="list-style-type: none"> Students will analyze experimental data from primary and secondary sources, construct scientific explanations using chemical/biological principles, write evidence-based conclusions, and listen to peer critiques to refine their reasoning. Students will interpret data from chemical/biological systems, develop written scientific claims supported by evidence and reasoning, present their findings in class, and evaluate peer interpretations to strengthen their understanding. Students will examine models and representations of chemical/biological phenomena, write comparative analysis evaluating different 			

	<p>approaches to solving scientific problems, discuss their findings in groups, and give feedback to enhance their problem-solving strategies.</p> <ul style="list-style-type: none"> Students will use Claim, evidence, reasoning via ADI Posters to present findings in lab settings 			
Reading (specific quarter reading lists are available in teacher's CANVAS on unit calendars)	HW: 15-20 pages reading <ul style="list-style-type: none"> Textbook: OpenStax/Zumdahl Primary / Secondary Documents Inside Class Notes: Individual Processing Notes (Graphic Organizers)	HW: 15-20 pages reading <ul style="list-style-type: none"> Textbook: OpenStax/Zumdahl Primary / Secondary Documents Outside Class Notes: Evidence Based Notes (annotate CEDs) Inside Class Notes: Individual Processing Notes (Graphic Organizers)	HW: 15-20 pages reading <ul style="list-style-type: none"> Textbook: OpenStax/Zumdahl Primary / Secondary Documents Outside Class Notes: Evidence Based Notes (annotate CEDs) Inside Class Notes: Individual Processing Notes (Graphic Organizers)	HW: 15-20 pages reading <ul style="list-style-type: none"> Textbook: OpenStax/Zumdahl Primary / Secondary Documents Outside Class Notes: Evidence Based Notes (annotate CEDs) Inside Class Notes: Individual Processing Notes (Graphic Organizers)
Writing	Claim, evidence, reasoning via ADI posters Practice FRQs	Claim, evidence, reasoning via ADI posters Practice FRQs	Claim, evidence, reasoning via ADI posters Practice FRQs	Claim, evidence, reasoning via ADI posters Practice FRQs
Assessments				
Formative & Summative	Formative: <ul style="list-style-type: none"> Guided Reading Note Checks Vocabulary Checks Progress Checks Quizzes Summative: MCQs + FRQs <ul style="list-style-type: none"> Unit Tests Labs	Formative: <ul style="list-style-type: none"> Guided Reading Note Checks Vocabulary Checks Progress Checks Reading Quizzes Summative: MCQs + FRQs <ul style="list-style-type: none"> Unit Tests Labs	Formative: <ul style="list-style-type: none"> Guided Reading Note Checks Vocabulary Checks Progress Checks Reading Quizzes Summative: MCQs + FRQs <ul style="list-style-type: none"> Unit Tests Labs	Formative: <ul style="list-style-type: none"> Guided Reading Note Checks Vocabulary Checks Progress Checks Reading Quizzes Summative: MCQs + FRQs <ul style="list-style-type: none"> Unit Tests Labs