CER = Conclusions in Claim, Evidence, Reasoning format

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Biology 1 and 2 Gradebook standards Biological Explanations Analyzing and Interpreting Data Scientific Reasoning Topics of Study Experimental design DNA & Cell cycle Protein Synthesis Evolution EcologyMicro & Macro Human body systems	Advanced Biology Gradebook standards Biological Explanations Graphing and Experimental Design CER Topics of Study Graphing and Experimental Design, and writing CERs Cell Biology DNA & Protein Synthesis Cell Cycle and Cancer	Advanced Biology 2 Gradebook standards Biological Explanations Graphing and Experimental Design CER Topics of Study Genetics Evolution Human Body systems Ecology
Physical Science Chemistry Gradebook standards	Physical Science Physics Gradebook standards Physics Explanations Physics Math Skills Analyzing and Interpreting Data Topics of Study Kinematics Dynamics Energy	Chemistry 1 Gradebook standards Critical Analysis of Scientific Content Lab Skills Data Analysis & Numeracy CER Topics of Study Chemistry Lab Skills Dimensional Analysis & Significant Figures Atomic Theory & Structure Quantum Mechanical Model & Electron Configurations Bonding Chemical Equations & Types of Reactions
Chemistry 2 Gradebook standards Critical Analysis of Scientific Content Lab Skills Data Analysis & Numeracy CER Topics of Study Chemistry Lab Skills The Mole & Stoichiometry Solution Stoichiometry Acids/Bases & Titrations Gas Laws	Environmental Science Gradebook standards Environmental Science Explanations Lab Reports Critical Thinking Topics of Study Biodiversity Loss Water Quality and Land Use Soils and Agriculture Climate Change and Energy	Weather and Climate Gradebook standards Earth Science Explanations Analyzing and Interpreting Data Earth Science Applications Topics of Study Atmosphere Lithosphere Hydrosphere Climate Change

Biotechnology

Gradebook standards

- Lab Skills
- Lab Analysis & Conclusions
- Scientific Explanations

Topics of Study

- DNA Extraction
- Gel Electrophoresis
- Restriction Enzymes
- PCR
- Transformation
- DNA & Proteins
- Genetic Testing
- Genetic Modification

Space Science

Gradebook standards

- Astronomy Explanations
- Analyzing and Interpreting Data
- Astronomy Applications

Topics of Study

- Earth's place in space & history of modern astronomy
- Tour of the Solar System
- Beyond the solar system
- Modern Space Exploration

Physics 1

Gradebook standards

- Lab Skills
- Conclusions + CER
- Concept Comprehension
- Numeracy

Topics of Study

- Kinematics
- Balanced Forces
- Unbalanced Forces

Physics 2

Gradebook standards

- Lab Skills
- Conclusions + CER
- Concept Comprehension
- Numeracy

Topics of Study

- Work and Energy
- Momentum and Collisions
- Mechanical Waves

Anatomy 1

Gradebook standards

- Structure / Function Relationships
- Interdepence
- Homeostasis
- Practice / Preparation

Topics of Study

- Anatomical Language
- Overview of Body Systems
- Histology (tissues)
- Digestive System
- Respiratory System
- Circulatory System
- Excretory System

Anatomy 2

Gradebook standards

- Structure / Function Relationships
- Physiology
- Homeostasis
- Dissection Practicum
- Practice / Preparation

Topics of Study

- Continuation of Anatomical Language and histology
- Nervous System
- Muscular System
- Endocrine System
- Skeletal System
- Integumentary System

AP Physics 1 and 2

Gradebook standards

- Formal Lab Write-Ups
- Unit Tests

Topics of Study

- Mechanics
- Rotational Motion
- Fluids
- Thermodynamics
- Optics
- Electricity and Circuit
- Magnetism
- Modern Physics

AP Chemistry 1 and 2

Gradebook standards

- Laboratory Documentation
- Laboratory Conclusions
- Critical Analysis of Scientific Content

Topics of Study

- Atomic Structure & Properties
- Molecular & Ionic Compound Structure and Properties
- Intermolecular Forces and Properties
- Chemical Reactions
- Kinetics
- Thermodynamics
- Equilibrium
- Acids & Bases
- Applications of Thermodynamics

AP Biology 1 and 2

Gradebook standards

- Biological Explanations
- Labs 1 Variables, Data, Stats
- Labs 2 CERA (Claim, Evidence, Reasoning, and Analysis of Errors)

Topics of Study

- Chemistry of Life
- Cell Structure & Function
- Cell Energetics
- Cell Communication and Cell Cycle
- Heredity
- Gene Expression and Regulation
- Natural Selection
- Ecology

Principles of Engineering

Gradebook standards

- Demonstrate Engineering Design (ENG2)
- Maintain technological products and systems (ENG5)
- Critical Thinking (4C1)
- Communicate and collaborate with Others (4C3)

Topics of Study Project Lead the Way based activities:

- Energy and Power
- Materials and Structures
- Control Systems Robotics and Programming
- Statistics and Kinematics

Environmental Field Studies

Gradebook standards

- Environmental Science Explanations
- Reflections on Applications
- Service Project

Topics of Study

- Energy (sources, conservation, net-zero buildings)
- Waste Management
- Food Production
- Habitat Restoration and Resource Management