

Topic	Current Listing	Action	New Listing
Anatomy and Physiology	Regulation & Body Heat	Replace with	Regulation of Body Heat
	Exercise & Pulse Rate	Remove	
	Exercise & Respiration rate	Remove	
	EKG Rest vs Exercise	Remove	
	EKG Demonstration	Remove	
	Muscle Fatigue	Replace with	Muscle Strength
	A.D.A.M.Essentials CD-ROM	Remove	
	A.D.A.M. The Inside Story (ALL)	Remove	
		Add	Volume of Breath
		Add	Sherlock Bones
Embryology and Developmental Stages	Observing the Embryological Development of Medaka	Replace with	Sea Urchin Embryology
Environment and Ecology	Acid Raindrops Keep Falling...	Replace with	Acid Rain
	Effect of drugs on Daphnia	Replace with	Effect of Drugs on Daphnia
	Predator / Prey relationship (Daphnia and Hydra)	Keep	
	Leaf Pack Macroinvertebrate Study	Keep	
	Water Quality Testing	Keep	
	Ground Water Flow Model	Remove	
	Enviroscape Watershed Point/Nonpoint Source Pollution	Add	Enviroscape Watershed/Nonpoint Source Model
	Effect of Respiration on dissolved O2	Remove	
	Insulating Properties of Water and soil	Keep	
	PASCO Soil pH	Add	Soil pH
	Add	Invertebrate Biodiversity	
Genetics and Heredity	ABO and Rh BloodTyping	Keep	
	Analysis of Precut Lambda DNA	Keep	Analysis of Precut Lambda DNA
	Building a DNA Model with K'Nex	Keep	
	DNA Fingerprinting: A Crime Scene Investigation	Keep	DNA Fingerprinting: A Crime Scene Investigation
	DNA spooling	Keep	
	Genes in a Bottle	Keep	
	Human Chromosome Spread	Replace with	Chromosome Spread of Cancer Cells
	Introduction to Using Bioinformatics	Keep	
	Introduction to PCR	Keep	
		Add	Viral Diagnostics (PCR / Electrophoresis)
		Add	Shark Attack (PCR / Electrophoresis)
		Add	Food Safety Lab (PCR / Electrophoresis)
		Add	Forensics Lab (PCR / Electrophoresis)
		Add	Chlorophyll Lab (Fluorescence)
		Add	Intro to Fluorescence Lab
	Add	Central Dogma Lab --> DNA, RNA, Protein (Fluorescence)	
	Add	Exploring DNA Structure (Fluorescence)	

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	Karyotyping	Keep	
	Principles of DNA sequencing	Keep	
	Why do People Look Different (Edvotek)	Keep	
Evolution	Analysis of Fish Protein	Keep	
Microbiology	Bacterial Transformation	Keep	
	Observing Bacteria in Yogurt	Keep	
		Add	Bacterial Gram Stain
Cell Biology	Observing Plasmolysis in Elodea	Keep	
	Spectral Curve of Leaf Pigments	Keep	
		Add	Absorption Spectrum of Leaves
		Add	Plant Pigments and Photosynthesis
	Membrane Permeability	Replace with	Membrane Permeability
		Add	Diffusion Lab (AP Biology)
			Osmosis Lab
	Rate of Photosynthesis in a plant leaf	Replace with	Photosynthesis
		Add	Using Algae Beads as a Model for Photosynthesis
	Rate of Transpiration in a Plant Leaf	Replace with	Transpiration
		Add	Respiration of Germinating Seeds (AP Biology)
Biochemistry	Energy Content of Foods	Replace with	Energy Content of Food
	Fermentation of Grape Juice	Replace with	Respiration and Energy
	Effect of Temperature on Yeast	Remove	
	Catalase Enzyme Activity	Replace with	Enzyme Action
		Add	Enzyme Activity (AP Biology)
	The Role of Buffers in Biological Systems	Replace with	Buffers in Biological Systems
	Organisms and pH	Replace with	Organisms and pH

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"Physical Properties", "Nuclear Chemistry", "Theory of pH", and "Chromatography"	All	Keep	Note: Add link for Determination of Acetic Acid in Vinegar
Gas Chromatography	Air GC Separation of Alcohols	Remove	
	Air GC Analysis of Mouthwash	Remove	
	Air GC Effects of molecules on retention time	Remove	
		Add	Mini GC: Identifying Unknown Compounds
		Add	Mini GC: Synthesizing Ethyl Acetate by Fischer Esterification
		Add	Mini GC: Quantifying Substances in a Mixture
		Add	Mini GC: Fractional Distillation
		Add	Mini GC: Investigating Gas Chromatography
Spectroscopy	Beer's Law	Replace with	Beer's Law: Determining the Concentration of an Unknown
	Determination of Iron in Water	Keep	
	Determination of Wavelength of Maximum Absorbance	Keep	
		Add	Colored Solutions
	A Spectrum	Keep	
	Spectra of Pure Liquids	Remove	
	Spectra of Solids	Remove	
	Spectral Analysis of Aspirin	Keep	
	UV Determination of Caffeine Content	Keep	
		Add	Enzyme Activity
		Add	Determining the Order of a Reaction
		Add	Light Analysis
PASCO labs	Mapping a Flame	Remove	
Phase Changes	Freezing and Melting of Water	Replace with	Phase Change
	Heat of Fusion for Ice	Replace with	Heat of Fusion
	Heat of Vaporization of a Liquid	Replace with	Evaporative Cooling
		Add	Project: Design an Insulator
	Evaporation and Intermolecular Attractions	Replace with	Intermolecular Forces
	Determine the Vapor Pressure of a Compound	Keep	
Gas Laws	Boyle's Law	Replace with	Boyle's Law
	Charles' Law	Replace with	Charles' Law
	The Ideal Gas Law	Replace with	Ideal Gas Law
		Add	Demonstrations with a Vacuum Pump
		Add	Boiling water in a Bell Jar

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	Determine R, the Gas Constant	Keep	
	Determine n for a Chemical Reaction	Replace with	Investigating Physical and Chemical Changes in Matter
	Dalton's Law of Partial Pressure	Keep	
	Raoult's Law	Keep	
Rates of Reaction	Rate of a Chemical Reaction 1	Remove	
	Rate of a Chemical Reaction 2	Remove	
		Add	Reaction Rates
		Add	Measuring the Speed of a Reaction
		Add	Factors that Affect Reaction Rate
	A Pseudo-First Order Reaction	Remove	
	Another Pseudo-First Order Reaction	Remove	
	Chemical Equilibrium	Replace with	Chemical Equilibrium
	Determine the Equilibrium Constant (Kc) of a Reaction	Remove	
		Add	LeChatalier's Principle
Reactions of Energy	Endothermic and Exothermic Reactions	Replace with	Endothermic or Exothermic Chemical Reactions
		Add	Building a Better Hand Warmer
	Heat of Solution	Keep	
		Add	Specific Heat
	Hess's Law	Replace with	Hess's Law
	Heat of Combustion of Magnesium	Remove	
The Mole	Determine the Molecular Mass of a Compound	Keep	
	Molar mass Determination by Freezing Point Depression	Keep	
	Molal Freezing Point Depression Constant (Kf)	Keep	
Chemical Unknowns	Determine the concentration of a solution - Beer's Law	Remove	
Electrochemistry	Reduction Potentials in Micro-voltaic cells	Remove	
	Electroplating	Remove	
Acids, Bases, and Salts	pH versus Time for Antacids	Replace with	Antacids: An Inquiry Study
	Neutralization of Vinegar with Drain Cleaner	Keep	
	Acid-Base Titrations	Replace with	Investigation of Acid-Base Titrations
		Add	How Much Acid is in Your Fruit Juice?
		Add	Titration Curves (requires biurette)
		Add	Buffer Properties
		Add	Evaluation of Lemonade as a Buffer

Topic	Current Listing	Action	New Listing
Motion and Forces	Position and Time	Replace with	Position, Distance and Displacement
		Add	Position: Match Graph
	Velocity and Time	Replace with	Relative Motion
		Add	Graphs of Motion
	Acceleration of a Freely Falling Picket Fence	Remove	
		Add	Acceleration
		Add	Acceleration due to Gravity
		Add	Effect of Size and Mass on Acceleration
		Add	Force and Acceleration
	Atwood's Machine	Remove	
	Simple Harmonic Motion	Remove	
Sound	Speed of Sound in Air	Remove	
	Sound Waves	Remove	
Waves		Add	Sine Wave Generator
Light	Variation of Light Intensity	Remove	
	Spectrometer	Leave	
		Add	Light Analysis with Wireless Spectrometer
	Optical Illusion	Remove	
		Add	Basic Optics
Heat	Heat vs. Temperature	Replace with	Temperature vs. Heat
	Pressure vs. Temperature	Replace with	Understanding Pressure
		Add	Specific Heat of Water and Steel
		Add	Specific Heat Capacity of a Metal
		Add	Heat of Fusion
		Add	Heat of Vaporization
		Add	Visualizing Convection
IR Thermometers		Add	Effect of Color on Temperature
		Add	The Temperature of Clouds
		Add	Is Your Building Well-Insulated?
		Add	Dark vs. Light-Colored Materials
Electricity	Van der Graff Generator	Keep	

New Listing

[Locating an Earthquake Epicenter](#)

[Seasons and Temperature](#)

[Ocean Acidification](#)

[Greenhouse Gases](#)

[Acid Rain and Weathering](#)

[Exploring Environmental Temperatures](#)

[Mapping the Ocean Floor](#)

[Soil Characteristics](#)

[Water's Role in Climate](#)

[Modeling an Ecosystem](#)

[Greenhouse Gases w/ Ecozone](#)